



SEQUENCE LISTING

<110> Nixon, Andrew
Hogan, Shannon

<120> PAPP-A LIGANDS

<130> 10280-059001

<140> US 10/783,311

<141> 2004-02-19

<150> US 60/448,515

<151> 2003-02-19

<160> 394

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 1627

<212> PRT

<213> Homo sapiens

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35 40 45
Thr Arg Gly Pro Arg Pro Pro Arg Leu Ala Ala Ala Ala Ala Ala
50 55 60
Gly Arg Ala Trp Glu Ala Val Arg Val Pro Arg Arg Arg Gln Gln Arg
65 70 75 80
Glu Ala Arg Gly Ala Thr Glu Glu Pro Ser Pro Pro Ser Arg Ala Leu
85 90 95
Tyr Phe Ser Gly Arg Gly Glu Gln Leu Arg Val Leu Arg Ala Asp Leu
100 105 110
Glu Leu Pro Arg Asp Ala Phe Thr Leu Gln Val Trp Leu Arg Ala Glu
115 120 125
Gly Gly Gln Arg Ser Pro Ala Val Ile Thr Gly Leu Tyr Asp Lys Cys
130 135 140
Ser Tyr Ile Ser Arg Asp Arg Gly Trp Val Val Gly Ile His Thr Ile
145 150 155 160
Ser Asp Gln Asp Asn Lys Asp Pro Arg Tyr Phe Phe Ser Leu Lys Thr
165 170 175
Asp Arg Ala Arg Gln Val Thr Thr Ile Asn Ala His Arg Ser Tyr Leu
180 185 190
Pro Gly Gln Trp Val Tyr Leu Ala Ala Thr Tyr Asp Gly Gln Phe Met
195 200 205
Lys Leu Tyr Val Asn Gly Ala Gln Val Ala Thr Ser Gly Glu Gln Val
210 215 220
Gly Gly Ile Phe Ser Pro Leu Thr Gln Lys Cys Lys Val Leu Met Leu
225 230 235 240

Gly Gly Ser Ala Leu Asn His Asn Tyr Arg Gly Tyr Ile Glu His Phe
 245 250 255
 Ser Leu Trp Lys Val Ala Arg Thr Gln Arg Glu Ile Leu Ser Asp Met
 260 265 270
 Glu Thr His Gly Ala His Thr Ala Leu Pro Gln Leu Leu Leu Gln Glu
 275 280 285
 Asn Trp Asp Asn Val Lys His Ala Trp Ser Pro Met Lys Asp Gly Ser
 290 295 300
 Ser Pro Lys Val Glu Phe Ser Asn Ala His Gly Phe Leu Leu Asp Thr
 305 310 315 320
 Ser Leu Glu Pro Pro Leu Cys Gly Gln Thr Leu Cys Asp Asn Thr Glu
 325 330 335
 Val Ile Ala Ser Tyr Asn Gln Leu Ser Ser Phe Arg Gln Pro Lys Val
 340 345 350
 Val Arg Tyr Arg Val Val Asn Leu Tyr Glu Asp Asp His Lys Asn Pro
 355 360 365
 Thr Val Thr Arg Glu Gln Val Asp Phe Gln His His Gln Leu Ala Glu
 370 375 380
 Ala Phe Lys Gln Tyr Asn Ile Ser Trp Glu Leu Asp Val Leu Glu Val
 385 390 395 400
 Ser Asn Ser Ser Leu Arg Arg Arg Leu Ile Leu Ala Asn Cys Asp Ile
 405 410 415
 Ser Lys Ile Gly Asp Glu Asn Cys Asp Pro Glu Cys Asn His Thr Leu
 420 425 430
 Thr Gly His Asp Gly Gly Asp Cys Arg His Leu Arg His Pro Ala Phe
 435 440 445
 Val Lys Lys Gln His Asn Gly Val Cys Asp Met Asp Cys Asn Tyr Glu
 450 455 460
 Arg Phe Asn Phe Asp Gly Gly Glu Cys Cys Asp Pro Glu Ile Thr Asn
 465 470 475 480
 Val Thr Gln Thr Cys Phe Asp Pro Asp Ser Pro His Arg Ala Tyr Leu
 485 490 495
 Asp Val Asn Glu Leu Lys Asn Ile Leu Lys Leu Asp Gly Ser Thr His
 500 505 510
 Leu Asn Ile Phe Phe Ala Lys Ser Ser Glu Glu Leu Ala Gly Val
 515 520 525
 Ala Thr Trp Pro Trp Asp Lys Glu Ala Leu Met His Leu Gly Gly Ile
 530 535 540
 Val Leu Asn Pro Ser Phe Tyr Gly Met Pro Gly His Thr His Thr Met
 545 550 555 560
 Ile His Glu Ile Gly His Ser Leu Gly Leu Tyr His Val Phe Arg Gly
 565 570 575
 Ile Ser Glu Ile Gln Ser Cys Ser Asp Pro Cys Met Glu Thr Glu Pro
 580 585 590
 Ser Phe Glu Thr Gly Asp Leu Cys Asn Asp Thr Asn Pro Ala Pro Lys
 595 600 605
 His Lys Ser Cys Gly Asp Pro Gly Pro Gly Asn Asp Thr Cys Gly Phe
 610 615 620
 His Ser Phe Phe Asn Thr Pro Tyr Asn Asn Phe Met Ser Tyr Ala Asp
 625 630 635 640
 Asp Asp Cys Thr Asp Ser Phe Thr Pro Asn Gln Val Ala Arg Met His
 645 650 655
 Cys Tyr Leu Asp Leu Val Tyr Gln Gly Trp Gln Pro Ser Arg Lys Pro
 660 665 670
 Ala Pro Val Ala Leu Ala Pro Gln Val Leu Gly His Thr Thr Asp Ser
 675 680 685
 Val Thr Leu Glu Trp Phe Pro Pro Ile Asp Gly His Phe Phe Glu Arg

690	695	700
Glu Leu Gly Ser Ala Cys His Leu Cys Leu Glu Gly Arg Ile Leu Val		
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Gln Tyr Ala Ser Asn Ala Ser Ser Pro Met Pro Cys Ser Pro Ser Gly		720
725	730	735
His Trp Ser Pro Arg Glu Ala Glu Gly His Pro Asp Val Glu Gln Pro		
740	745	750
Cys Lys Ser Ser Val Arg Thr Trp Ser Pro Asn Ser Ala Val Asn Pro		
755	760	765
His Thr Val Pro Pro Ala Cys Pro Glu Pro Gln Gly Cys Tyr Leu Glu		
770	775	780
Leu Glu Phe Leu Tyr Pro Leu Val Pro Glu Ser Leu Thr Ile Trp Val		
785	790	795
Thr Phe Val Ser Thr Asp Trp Asp Ser Ser Gly Ala Val Asn Asp Ile		800
805	810	815
Lys Leu Leu Ala Val Ser Gly Lys Asn Ile Ser Leu Gly Pro Gln Asn		
820	825	830
Val Phe Cys Asp Val Pro Leu Thr Ile Arg Leu Trp Asp Val Gly Glu		
835	840	845
Glu Val Tyr Gly Ile Gln Ile Tyr Thr Leu Asp Glu His Leu Glu Ile		
850	855	860
Asp Ala Ala Met Leu Thr Ser Thr Ala Asp Thr Pro Leu Cys Leu Gln		
865	870	875
Cys Lys Pro Leu Lys Tyr Lys Val Val Arg Asp Pro Pro Leu Gln Met		
885	890	895
Asp Val Ala Ser Ile Leu His Leu Asn Arg Lys Phe Val Asp Met Asp		
900	905	910
Leu Asn Leu Gly Ser Val Tyr Gln Tyr Trp Val Ile Thr Ile Ser Gly		
915	920	925
Thr Glu Glu Ser Glu Pro Ser Pro Ala Val Thr Tyr Ile His Gly Arg		
930	935	940
Gly Tyr Cys Gly Asp Gly Ile Ile Gln Lys Asp Gln Gly Glu Gln Cys		
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Asp Asp Met Asn Lys Ile Asn Gly Asp Gly Cys Ser Leu Phe Cys Arg		
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Gln Glu Val Ser Phe Asn Cys Ile Asp Glu Pro Ser Arg Cys Tyr Phe		
980	985	990
His Asp Gly Asp Gly Val Cys Glu Glu Phe Glu Gln Lys Thr Ser Ile		
995	1000	1005
Lys Asp Cys Gly Val Tyr Thr Pro Gln Gly Phe Leu Asp Gln Trp Ala		
1010	1015	1020
Ser Asn Ala Ser Val Ser His Gln Asp Gln Gln Cys Pro Gly Trp Val		
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Ile Ile Gly Gln Pro Ala Ala Ser Gln Val Cys Arg Thr Lys Val Ile		
1045	1050	1055
Asp Leu Ser Glu Gly Ile Ser Gln His Ala Trp Tyr Pro Cys Thr Ile		
1060	1065	1070
Ser Tyr Pro Tyr Ser Gln Leu Ala Gln Thr Thr Phe Trp Leu Arg Ala		
1075	1080	1085
Tyr Phe Ser Gln Pro Met Val Ala Ala Val Ile Val His Leu Val		
1090	1095	1100
Thr Asp Gly Thr Tyr Tyr Gly Asp Gln Lys Gln Glu Thr Ile Ser Val		
1105	1110	1115
Gln Leu Leu Asp Thr Lys Asp Gln Ser His Asp Leu Gly Leu His Val		1120
1125	1130	1135
Leu Ser Cys Arg Asn Asn Pro Leu Ile Ile Pro Val Val His Asp Leu		
1140	1145	1150

Ser Gln Pro Phe Tyr His Ser Gln Ala Val Arg Val Ser Phe Ser Ser
 1155 1160 1165
 Pro Leu Val Ala Ile Ser Gly Val Ala Leu Arg Ser Phe Asp Asn Phe
 1170 1175 1180
 Asp Pro Val Thr Leu Ser Ser Cys Gln Arg Gly Glu Thr Tyr Ser Pro
 1185 1190 1195 1200
 Ala Glu Gln Ser Cys Val His Phe Ala Cys Glu Lys Thr Asp Cys Pro
 1205 1210 1215
 Glu Leu Ala Val Glu Asn Ala Ser Leu Asn Cys Ser Ser Asp Arg
 1220 1225 1230
 Tyr His Gly Ala Gln Cys Thr Val Ser Cys Arg Thr Gly Tyr Val Leu
 1235 1240 1245
 Gln Ile Arg Arg Asp Asp Glu Leu Ile Lys Ser Gln Thr Gly Pro Ser
 1250 1255 1260
 Val Thr Val Thr Cys Thr Glu Gly Lys Trp Asn Lys Gln Val Ala Cys
 1265 1270 1275 1280
 Glu Pro Val Asp Cys Ser Ile Pro Asp His His Gln Val Tyr Ala Ala
 1285 1290 1295
 Ser Phe Ser Cys Pro Glu Gly Thr Thr Phe Gly Ser Gln Cys Ser Phe
 1300 1305 1310
 Gln Cys Arg His Pro Ala Gln Leu Lys Gly Asn Asn Ser Leu Leu Thr
 1315 1320 1325
 Cys Met Glu Asp Gly Leu Trp Ser Phe Pro Glu Ala Leu Cys Glu Leu
 1330 1335 1340
 Met Cys Leu Ala Pro Pro Pro Val Pro Asn Ala Asp Leu Gln Thr Ala
 1345 1350 1355 1360
 Arg Cys Arg Glu Asn Lys His Lys Val Gly Ser Phe Cys Lys Tyr Lys
 1365 1370 1375
 Cys Lys Pro Gly Tyr His Val Pro Gly Ser Ser Arg Lys Ser Lys Lys
 1380 1385 1390
 Arg Ala Phe Lys Thr Gln Cys Thr Gln Asp Gly Ser Trp Gln Glu Gly
 1395 1400 1405
 Ala Cys Val Pro Val Thr Cys Asp Pro Pro Pro Lys Phe His Gly
 1410 1415 1420
 Leu Tyr Gln Cys Thr Asn Gly Phe Gln Phe Asn Ser Glu Cys Arg Ile
 1425 1430 1435 1440
 Lys Cys Glu Asp Ser Asp Ala Ser Gln Gly Leu Gly Ser Asn Val Ile
 1445 1450 1455
 His Cys Arg Lys Asp Gly Thr Trp Asn Gly Ser Phe His Val Cys Gln
 1460 1465 1470
 Glu Met Gln Gly Gln Cys Ser Val Pro Asn Glu Leu Asn Ser Asn Leu
 1475 1480 1485
 Lys Leu Gln Cys Pro Asp Gly Tyr Ala Ile Gly Ser Glu Cys Ala Thr
 1490 1495 1500
 Ser Cys Leu Asp His Asn Ser Glu Ser Ile Ile Leu Pro Met Asn Val
 1505 1510 1515 1520
 Thr Val Arg Asp Ile Pro His Trp Leu Asn Pro Thr Arg Val Glu Arg
 1525 1530 1535
 Val Val Cys Thr Ala Gly Leu Lys Trp Tyr Pro His Pro Ala Leu Ile
 1540 1545 1550
 His Cys Val Lys Gly Cys Glu Pro Phe Met Gly Asp Asn Tyr Cys Asp
 1555 1560 1565
 Ala Ile Asn Asn Arg Ala Phe Cys Asn Tyr Asp Gly Gly Asp Cys Cys
 1570 1575 1580
 Thr Ser Thr Val Lys Thr Lys Lys Val Thr Pro Phe Pro Met Ser Cys
 1585 1590 1595 1600
 Asp Leu Gln Gly Asp Cys Ala Cys Arg Asp Pro Gln Ala Gln Glu His

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Glu Leu Pro Arg Asp Ala Phe Thr Leu Gln Val Trp Leu Arg Ala Glu		
35	40	45
Gly Gly Gln Arg Ser Pro Ala Val Ile Thr Gly Leu Tyr Asp Lys Cys		
50	55	60
Ser Tyr Ile Ser Arg Asp Arg Gly Trp Val Val Gly Ile His Thr Ile		
65	70	75
Ser Asp Gln Asp Asn Lys Asp Pro Arg Tyr Phe Phe Ser Leu Lys Thr		
85	90	95
Asp Arg Ala Arg Gln Val Thr Thr Ile Asn Ala His Arg Ser Tyr Leu		
100	105	110
Pro Gly Gln Trp Val Tyr Leu Ala Ala Thr Tyr Asp Gly Gln Phe Met		
115	120	125
Lys Leu Tyr Val Asn Gly Ala Gln Val Ala Thr Ser Gly Glu Gln Val		
130	135	140
Gly Gly Ile Phe Ser Pro Leu Thr Gln Lys Cys Lys Val Leu Met Leu		
145	150	155
Gly Gly Ser Ala Leu Asn His Asn Tyr Arg Gly Tyr Ile Glu His Phe		
165	170	175
Ser Leu Trp Lys Val Ala Arg Thr Gln Arg Glu Ile Leu Ser Asp Met		
180	185	190
Glu Thr His Gly Ala His Thr Ala Leu Pro Gln Leu Leu Gln Glu		
195	200	205
Asn Trp Asp Asn Val Lys His Ala Trp Ser Pro Met Lys Asp Gly Ser		
210	215	220
Ser Pro Lys Val Glu Phe Ser Asn Ala His Gly Phe Leu Leu Asp Thr		
225	230	235
Ser Leu Glu Pro Pro Leu Cys Gly Gln Thr Leu Cys Asp Asn Thr Glu		
245	250	255
Val Ile Ala Ser Tyr Asn Gln Leu Ser Ser Phe Arg Gln Pro Lys Val		
260	265	270
Val Arg Tyr Arg Val Val Asn Leu Tyr Glu Asp Asp His Lys Asn Pro		
275	280	285
Thr Val Thr Arg Glu Gln Val Asp Phe Gln His His Gln Leu Ala Glu		
290	295	300
Ala Phe Lys Gln Tyr Asn Ile Ser Trp Glu Leu Asp Val Leu Glu Val		
305	310	315
Ser Asn Ser Ser Leu Arg Arg Arg Leu Ile Leu Ala Asn Cys Asp Ile		
325	330	335
Ser Lys Ile Gly Asp Glu Asn Cys Asp Pro Glu Cys Asn His Thr Leu		
340	345	350
Thr Gly His Asp Gly Gly Asp Cys Arg His Leu Arg His Pro Ala Phe		
355	360	365
Val Lys Lys Gln His Asn Gly Val Cys Asp Met Asp Cys Asn Tyr Glu		

370	375	380
Arg Phe Asn Phe Asp Gly Gly Glu Cys Cys Asp Pro Glu Ile Thr Asn		
385	390	395
Val Thr Gln Thr Cys Phe Asp Pro Asp Ser Pro His Arg Ala Tyr Leu		
405	410	415
Asp Val Asn Glu Leu Lys Asn Ile Leu Lys Leu Asp Gly Ser Thr His		
420	425	430
Leu Asn Ile Phe Phe Ala Lys Ser Ser Glu Glu Glu Leu Ala Gly Val		
435	440	445
Ala Thr Trp Pro Trp Asp Lys Glu Ala Leu Met His Leu Gly Gly Ile		
450	455	460
Val Leu Asn Pro Ser Phe Tyr Gly Met Pro Gly His Thr His Thr Met		
465	470	475
Ile His Glu Ile Gly His Ser Leu Gly Leu Tyr His Val Phe Arg Gly		
485	490	495
Ile Ser Glu Ile Gln Ser Cys Ser Asp Pro Cys Met Glu Thr Glu Pro		
500	505	510
Ser Phe Glu Thr Gly Asp Leu Cys Asn Asp Thr Asn Pro Ala Pro Lys		
515	520	525
His Lys Ser Cys Gly Asp Pro Gly Pro Gly Asn Asp Thr Cys Gly Phe		
530	535	540
His Ser Phe Phe Asn Thr Pro Tyr Asn Asn Phe Met Ser Tyr Ala Asp		
545	550	555
Asp Asp Cys Thr Asp Ser Phe Thr Pro Asn Gln Val Ala Arg Met His		
565	570	575
Cys Tyr Leu Asp Leu Val Tyr Gln Gly Trp Gln Pro Ser Arg Lys Pro		
580	585	590
Ala Pro Val Ala Leu Ala Pro Gln Val Leu Gly His Thr Thr Asp Ser		
595	600	605
Val Thr Leu Glu Trp Phe Pro Pro Ile Asp Gly His Phe Phe Glu Arg		
610	615	620
Glu Leu Gly Ser Ala Cys His Leu Cys Leu Glu Gly Arg Ile Leu Val		
625	630	635
Gln Tyr Ala Ser Asn Ala Ser Ser Pro Met Pro Cys Ser Pro Ser Gly		
645	650	655
His Trp Ser Pro Arg Glu Ala Glu Gly His Pro Asp Val Glu Gln Pro		
660	665	670
Cys Lys Ser Ser Val Arg Thr Trp Ser Pro Asn Ser Ala Val Asn Pro		
675	680	685
His Thr Val Pro Pro Ala Cys Pro Glu Pro Gln Gly Cys Tyr Leu Glu		
690	695	700
Leu Glu Phe Leu Tyr Pro Leu Val Pro Glu Ser Leu Thr Ile Trp Val		
705	710	715
Thr Phe Val Ser Thr Asp Trp Asp Ser Ser Gly Ala Val Asn Asp Ile		
725	730	735
Lys Leu Leu Ala Val Ser Gly Lys Asn Ile Ser Leu Gly Pro Gln Asn		
740	745	750
Val Phe Cys Asp Val Pro Leu Thr Ile Arg Leu Trp Asp Val Gly Glu		
755	760	765
Glu Val Tyr Gly Ile Gln Ile Tyr Thr Leu Asp Glu His Leu Glu Ile		
770	775	780
Asp Ala Ala Met Leu Thr Ser Thr Ala Asp Thr Pro Leu Cys Leu Gln		
785	790	795
Cys Lys Pro Leu Lys Tyr Lys Val Val Arg Asp Pro Pro Leu Gln Met		
805	810	815
Asp Val Ala Ser Ile Leu His Leu Asn Arg Lys Phe Val Asp Met Asp		
820	825	830

Leu Asn Leu Gly Ser Val Tyr Gln Tyr Trp Val Ile Thr Ile Ser Gly
 835 840 845
 Thr Glu Glu Ser Glu Pro Ser Pro Ala Val Thr Tyr Ile His Gly Arg
 850 855 860
 Gly Tyr Cys Gly Asp Gly Ile Ile Gln Lys Asp Gln Gly Glu Gln Cys
 865 870 875 880
 Asp Asp Met Asn Lys Ile Asn Gly Asp Gly Cys Ser Leu Phe Cys Arg
 885 890 895
 Gln Glu Val Ser Phe Asn Cys Ile Asp Glu Pro Ser Arg Cys Tyr Phe
 900 905 910
 His Asp Gly Asp Gly Val Cys Glu Glu Phe Glu Gln Lys Thr Ser Ile
 915 920 925
 Lys Asp Cys Gly Val Tyr Thr Pro Gln Gly Phe Leu Asp Gln Trp Ala
 930 935 940
 Ser Asn Ala Ser Val Ser His Gln Asp Gln Gln Cys Pro Gly Trp Val
 945 950 955 960
 Ile Ile Gly Gln Pro Ala Ala Ser Gln Val Cys Arg Thr Lys Val Ile
 965 970 975
 Asp Leu Ser Glu Gly Ile Ser Gln His Ala Trp Tyr Pro Cys Thr Ile
 980 985 990
 Ser Tyr Pro Tyr Ser Gln Leu Ala Gln Thr Thr Phe Trp Leu Arg Ala
 995 1000 1005
 Tyr Phe Ser Gln Pro Met Val Ala Ala Ala Val Ile Val His Leu Val
 1010 1015 1020
 Thr Asp Gly Thr Tyr Tyr Gly Asp Gln Lys Gln Glu Thr Ile Ser Val
 1025 1030 1035 1040
 Gln Leu Leu Asp Thr Lys Asp Gln Ser His Asp Leu Gly Leu His Val
 1045 1050 1055
 Leu Ser Cys Arg Asn Asn Pro Leu Ile Ile Pro Val Val His Asp Leu
 1060 1065 1070
 Ser Gln Pro Phe Tyr His Ser Gln Ala Val Arg Val Ser Phe Ser Ser
 1075 1080 1085
 Pro Leu Val Ala Ile Ser Gly Val Ala Leu Arg Ser Phe Asp Asn Phe
 1090 1095 1100
 Asp Pro Val Thr Leu Ser Ser Cys Gln Arg Gly Glu Thr Tyr Ser Pro
 1105 1110 1115 1120
 Ala Glu Gln Ser Cys Val His Phe Ala Cys Glu Lys Thr Asp Cys Pro
 1125 1130 1135
 Glu Leu Ala Val Glu Asn Ala Ser Leu Asn Cys Ser Ser Asp Arg
 1140 1145 1150
 Tyr His Gly Ala Gln Cys Thr Val Ser Cys Arg Thr Gly Tyr Val Leu
 1155 1160 1165
 Gln Ile Arg Arg Asp Asp Glu Leu Ile Lys Ser Gln Thr Gly Pro Ser
 1170 1175 1180
 Val Thr Val Thr Cys Thr Glu Gly Lys Trp Asn Lys Gln Val Ala Cys
 1185 1190 1195 1200
 Glu Pro Val Asp Cys Ser Ile Pro Asp His His Gln Val Tyr Ala Ala
 1205 1210 1215
 Ser Phe Ser Cys Pro Glu Gly Thr Thr Phe Gly Ser Gln Cys Ser Phe
 1220 1225 1230
 Gln Cys Arg His Pro Ala Gln Leu Lys Gly Asn Asn Ser Leu Leu Thr
 1235 1240 1245
 Cys Met Glu Asp Gly Leu Trp Ser Phe Pro Glu Ala Leu Cys Glu Leu
 1250 1255 1260
 Met Cys Leu Ala Pro Pro Val Pro Asn Ala Asp Leu Gln Thr Ala
 1265 1270 1275 1280
 Arg Cys Arg Glu Asn Lys His Lys Val Gly Ser Phe Cys Lys Tyr Lys

	1285	1290	1295
Cys Lys Pro Gly Tyr His Val Pro Gly Ser Ser Arg Lys Ser Lys Lys			
1300	1305	1310	
Arg Ala Phe Lys Thr Gln Cys Thr Gln Asp Gly Ser Trp Gln Glu Gly			
1315	1320	1325	
Ala Cys Val Pro Val Thr Cys Asp Pro Pro Pro Lys Phe His Gly			
1330	1335	1340	
Leu Tyr Gln Cys Thr Asn Gly Phe Gln Phe Asn Ser Glu Cys Arg Ile			
1345	1350	1355	1360
Lys Cys Glu Asp Ser Asp Ala Ser Gln Gly Leu Gly Ser Asn Val Ile			
1365	1370	1375	
His Cys Arg Lys Asp Gly Thr Trp Asn Gly Ser Phe His Val Cys Gln			
1380	1385	1390	
Glu Met Gln Gly Gln Cys Ser Val Pro Asn Glu Leu Asn Ser Asn Leu			
1395	1400	1405	
Lys Leu Gln Cys Pro Asp Gly Tyr Ala Ile Gly Ser Glu Cys Ala Thr			
1410	1415	1420	
Ser Cys Leu Asp His Asn Ser Glu Ser Ile Ile Leu Pro Met Asn Val			
1425	1430	1435	1440
Thr Val Arg Asp Ile Pro His Trp Leu Asn Pro Thr Arg Val Glu Arg			
1445	1450	1455	
Val Val Cys Thr Ala Gly Leu Lys Trp Tyr Pro His Pro Ala Leu Ile			
1460	1465	1470	
His Cys Val Lys Gly Cys Glu Pro Phe Met Gly Asp Asn Tyr Cys Asp			
1475	1480	1485	
Ala Ile Asn Asn Arg Ala Phe Cys Asn Tyr Asp Gly Asp Cys Cys			
1490	1495	1500	
Thr Ser Thr Val Lys Thr Lys Lys Val Thr Pro Phe Pro Met Ser Cys			
1505	1510	1515	1520
Asp Leu Gln Gly Asp Cys Ala Cys Arg Asp Pro Gln Ala Gln Glu His			
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<213> Unknown

<220>

<223> Light Chain nucleic acid sequence

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atcaacttgcc gggctagtc ggcattagt agttatgtaa attggatcaca acagaaaacca	180
gggaaagccc ctaagctcct gatctattct gcatccagtt tacaaaagtgg ggtcccatca	240
aggttcagtg gcagtgtatc tggacagag ttcaactctca ccatcagcag tctgcaacacct	300
gaggattttg caacttacta ctgtcaacag agttaccgta cccctccctt ttttggccag	360
gggaccaagc tggaggtcaa acgaactgtg gctgcaccat ctgtc	405

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<211> 405

<212> DNA

<213> Unknown

<220>

<223> Light Chain nucleic acid

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gacatccaga tgacccagtc tccagccacc ctgtatgtgt ctccggggga aagagccacc	120
ctctcctgca gggccagtca gagtgttagt aggaacttag cctggtagcca gcagaaaacct	180
ggccaggctc ccaggctcct catctatggt gcatccacca gggccactgg tatcccagcc	240
aggttcagtg gcagtgggtc tggacagag ttcactctca ccatcagcag cctgcagtct	300
gaagattttg cagtttatca ctgtcagcag tataatagca ggcctctcac tttcggcgga	360
gggaccaagg tggagatcaa acgaactgtg gctgcaccat ctgtc	405

<210> 5

<211> 405

<212> DNA

<213> Unknown

<220>

<223> Light Chain nucleic acid sequence

<400> 5

gtgaaaaaat tattattcgc aattccttta gttgttcctt tctattctca cagtgcacaa	60
gacatccaga tgacccagtc tccagccacc ctgtctgtgt ctccaggggga aagagccacc	120
ctctcctgca gggccagtca gagtgttcgc agctacttag cctggtagcca gcagaaaacct	180
ggccaggctc ccaggctcct catctatgtat gcatccacca gggccactgg tatcccagcc	240
agatttcagtg gcagtgggtc tggacagag ttcactctca ccatcagcag cctgcagtct	300
gaagattttg cagtttattatca ctgtcagcag tataataact ggcctccgac gttcggccaa	360
gggaccaagg tggaaatcaa acgaactgtg gctgcaccat ctgtc	405

<210> 6

<211> 405

<212> DNA

<213> Artificial Sequence

<220>

<223> Light Chain nucleic acid sequence

<400> 6

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gacatccaga tgacccagtc tccagccacc ctgtctgtgt ctccaggggga aagagccacc	120
ctctcctgca gggccagtca ggtatgttaac agataacttag cctggtagcca gcagaaaacct	180
ggccaggctc ccaggctcct catctatggt gcctctacca gggccactgg tatcccagcc	240
aggatcagtg gcagtgggtc tggacagag ttcactctca ccatcagcag cctgcagtct	300
gaagattttg cagtttattatca ctgtcagcag tataataact ggcctccgac tttcggcgga	360
gggaccaagg tggagatcaa acgaactgtg gctgcaccat ctgtc	405

<210> 7

<211> 405

<212> DNA

<213> Artificial Sequence

<220>

<223> Light Chain nucleic acid sequence

<400> 7

gtgaaaaaat tattattcgc aattccttta gttgttcctt tctattctca cagtgcacaa	60
gacatccaga tgacccagtc tccagccacc ctgtctgtgt ctccaggggga aagagccacc	120

cttcctgca	ggccaggta	gagtgttagc	agctacttag	cctggtagcca	acagaaacct	180
ggccaggctc	ccaggctcct	catctatggt	gcatccagca	ggccactgg	catcccagac	240
aggttcagtg	gcagtgggtc	tggacagac	ttcactctca	ccatcggcag	actggagcct	300
gaagattttg	cagtgttata	ctgtcagcag	tatagtagtt	caccggtagca	cttcggccaa	360
gggacacgac	tggagattaa	acgaactgtg	gctgcaccat	ctgtc		405

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cttcctgca	ggccaggta	gagtgttagc	aggtacttag	cctggtagcca	acagaaacct	180
ggccaggctc	ccaggctcct	catctatggt	gcatccacca	ggccactgg	tatcccagcc	240
aggttcagtg	gcagtgggtc	tggacagac	ttcactctca	ccatcagcag	cctgcagtct	300
gaagattttg	cagtgttata	ctgtcagcag	tataataact	ggccttctt	cggcggaggg	360
accaagggtgg	agatcaaacg	aactgtggct	gcaccatctg	tc		402

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 <212> DNA
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<220>
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gacatccaga	tgacccagtc	tccagccacc	ctgtcttgc	ctccaggggga	aagagccacc	120
cttcctgca	ggccaggta	gagtattagc	agcagctact	tagcctggta	ccagcagaaa	180
cctggccagg	ctcccaggct	cctcatctat	gctgcagcca	gcagggccac	tggcatccca	240
gacaggttca	gtggcattgg	gtctgggaca	gacttcactc	tcaccatcag	cagcctagag	300
cctgaagatt	ttgcagttta	ttactgtcag	cagcgttagca	actggcctct	cacttcggc	360
ggagggacca	agggtggagat	caaacgaact	gtggctgcac	catctgtc		408

<210> 10
 <211> 408
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Light Chain nucleic acid sequence

<400> 10						
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gacatccaga	tgacccagtc	tccagggacc	ctgtcttgc	ctccaggggga	aagagccacc	120
cttcctgca	ggccaggta	gagtgttagc	agcagctact	tagcctggta	ccagcagaaa	180
cctggccagg	ctcccaggct	cctcatctat	ggtgcaccca	gcagggccac	tggcatccca	240
gacaggttca	gtggcagtgg	gtctgggaca	gacttcactc	tcaccatcag	cagactggag	300
cctgaagatt	ttgcagttta	ttactgtcag	cagtaggtta	gctcaccgtg	gacggttcggc	360
caagggacca	agggtggaaat	caaacgaact	gtggctgcac	catctgtc		408

<210> 11
 <211> 405
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Light Chain nucleic acid sequence

<400> 11
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 atcaacttgc gggcgagtca ggacatttagc aattatttag cctggttca gcagaaaacca 180
 gggagagccc ctaagtcct gatctatggt gcatccagtt tgcaaactgg ggtcccatca 240
 aagttcagcg gcagtggatc tggacagag ttcactctca ccatcagcgg cctgcagcct 300
 gaagatgttgc aacttatta ctgccccatcataatcatt accctccac tttcggcgaa 360
 gggaccaagg tggagatcaa acgaactgtg gctgcaccat ctgtc 405

<210> 12
 <211> 405
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Light Chain nucleic acid sequence

<400> 12
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 gacatccaga tgacccagtc tccatcctca ctgtctgcat ctgttaggaga cagagtcacc 120
 atcaacttgc gggcgagtca ggacatttagg aattatttag cctggttca gcagaaaacca 180
 gggaaagccc ctaagtcct gatctatgct gcatccagtt tgcaagatgg ggtctcatca 240
 aacttcagcg gcagtggatc tggacagat ttcactctca ccatcagcag cctgcagcct 300
 gaagattttgc aacttatta ctgccccatcataatcatt accccgaggac ttttggtcag 360
 gggaccaagc tggagatcaa acgaactgtg gctgcaccat ctgtc 405

<210> 13
 <211> 560
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Light Chain nucleic acid sequence

<400> 13
 gtgaaaaaat tattattcgc aattccttta gttgttcctt tctattctca cagtgcacaa 60
 gacatccaga tgacccagtc tccatcctca ttctctgcat ctacaggaga cagagtcacc 120
 atcaacttgc gggcgagtca gggatttagc agttatttag cctggatcatca gaaaaacca 180
 gggaaagccc ctaagtcct gatctatgct gcatccactt tgcaaagtgg ggtcccatca 240
 aagttcagcg gcagtggatc tggacagat ttcactctca ccatcagcag cctgcagcct 300
 gaagattttgc aacttatta ctgccccatcataatcatt accccctcac tttcggccaa 360
 gggacacgac tggagattaa acgaactgtg gctgcaccat ctgtcttcat tttccggcca 420
 tctgtatgagc agttgaaatc tggaaactgcc tctgttgtgt gcctgctgaa taacttctat 480
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 gagagtgtca cagacgaggaa 560

<210> 14
 <211> 405
 <212> DNA

<213> Artificial Sequence

<220>

<223> Light Chain nucleic acid sequence

<400> 14

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gacatccaga tgacccagtc tccatcctcc ctgtatgcat ctgttaggaga cagagtcacc	120
atcaacttgcc gggcaagtca gggcattaga aatgagttag gttggtatca gcagaaaacca	180
gggaaagccc ctcagcgcct gatctatgat gcatccactt tgcaagtggtgg ggtcccatca	240
agattcagcg gcgggtggatc taggacagaa ttcactctca ccatcagcag cctggAACCT	300
catgattttg gaacttatta ctgccaacaa tatgcccaggat atccgctcac tttcggcgga	360
gggaccaagg tggagatcaa acgaactgtg gctgcaccat ctgtc	405

<210> 15

<211> 405

<212> DNA

<213> Artificial Sequence

<220>

<223> Light Chain nucleic acid sequence

<400> 15

gtgaaaaaat tattattcgc aattccttta gttgttcctt tctattctca cagtgcacaa	60
gacatccaga tgacccagtc tccatcctcc ctgtctgcat ctgttaggaga cagagtcacc	120
atcaacttgcc gggcaagtca gggcattaga agctattaa attggtatca gcagaaaacca	180
gggaaagccc ctaagctcct gatctatgct gcatccaggat tgcaaaagtgg ggtcccatca	240
aggttcagtg gcagtggatc tgggacagat ttcactctca ccatcagcag tctgcaacac	300
gaagattttg caacttacta ctgtcaacag agttacagta ccaggtggac gttcggccaa	360
gggaccaagg tggaaatcaa acgaactgtg gctgcaccat ctgtc	405

<210> 16

<211> 405

<212> DNA

<213> Artificial Sequence

<220>

<223> Light Chain nucleic acid sequence

<400> 16

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gacatccaga tgacccagtc tccatcctcc ctgtctgcat ctgttaggaga cagagtcacc	120
atcaacttgcc gggcaagtca gggcattaga agctattaa attggtatca gcagaaaacca	180
gggaaagccc ctaagctcct gatctatgct gcatccaggat tgcaaaagtgg ggtcccatca	240
aggttcagtg gcagtggatc tgggacagat ttcactctca ccatcagcag tctgcaacac	300
gaagattttg caacttacta ctgtcaacag agttacagta ccaggtggac gttcggccaa	360
gggaccaagg tggaaatcaa acgaactgtg gctgcaccat ctgtc	405

<210> 17

<211> 560

<212> DNA

<213> Artificial Sequence

<220>

<223> Light Chain nucleic acid sequence

<400> 17

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gacatccaga tgacccagtc tccatcctcc ctgtctgcat ctgttaggaga cagagtcacc	120
atcaacttgcc gggcaagtca gggcattaga aatgatttag gctggttca gcagaaaacca	180
gggaaagccc ctaggcgcct gatctgggt gcatccactt tacaaggatgg ggtcccatca	240
aggttcagcg gcagtggatc tggcacagat ttcactctca ccatcagcag cctgcagcct	300
gaagattttg caacttatta ctgtctacaa gattacaatt acccgtagac ttttggccag	360
gggaccaagc tggagatcaa acgaactgtg gctgcaccat ctgtcttcat cttcccggca	420
tctgatgagc agttgaaatc tgaactgccc tctgttgtgt gcctgctgaa taacttctat	480
cccaagagagg ccaaagtaca gtggaaagggtg gataacgccc tccaatcgaa taactcccag	540
gagagtgtca cagagcagga	560

<210> 18
 <211> 405
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Light Chain nucleic acid sequence

<400> 18	
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gacatccaga tgacccagtc tccatcctcc ctgtctgcat ctgttaggaga cagagtcacc	120
atcaacttgcc gggcaagtca gggcattaga cattatttag gctggatca gcagaaaacca	180
gggaaagccc ctaagcgcct gatctatgct gcatccagtt tgcaatttgg ggtccagca	240
aggttcagcg gcagtggatc tgggacggaa ttcactctca caatcagcag cctgcagcct	300
gaagattttg caacttatta ctgtctacaa cacaatagtt tccctccggc gttcggccaa	360
gggaccaagg tggaaatcaa acgaactgtg gctgcaccat ctgtc	405

<210> 19
 <211> 405
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Light Chain nucleic acid sequence

<400> 19	
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gacatccaga tgacccagtc tccatcctcc ctgtctgcat ctgttaggaga cagagtcacc	120
atcaacttgcc gggcaagtca gggcattaga cattatttag gctggatca gcagaaaacca	180
gggaaagccc ctaagcgcct gatctatgct gcatccagtt tgcaatttgg ggtccagca	240
aggttcagcg gcagtggatc tgggacggaa ttcactctca caatcagcag cctgcagcct	300
gaagattttg caacttatta ctgtctacaa cacaatagtt tccctccggc gttcggccaa	360
gggaccaagg tggaaatcaa acgaactgtg gctgcaccat ctgtc	405

<210> 20
 <211> 405
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Light Chain nucleic acid sequence

<400> 20	
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gacatccaga tgacccagtc tccatcctcc ctgtctgcat ctgttaggaga cagagtcacc	120
atcaacttgcc gggcaagtca gggcattaga cattatttag gctggatca gcagaaaacca	180

gggaaagccc ctaagcgccc gatctatgct gcatccagtt tgcaatttgg ggtcccagca	240
aggttcagcg gcagtggatc tgggacggaa ttcactctca caatcagcag cctgcagcct	300
gaagattttg caacttatta ctgtctacaa cacaatagtt tccctccggc gttcggccaa	360
gggaccaagg tggaaatcaa acgaactgtg gctgcaccat ctgtc	405

<210> 21
<211> 405
<212> DNA
<213> Artificial Sequence

<220>
<223> Light Chain nucleic acid sequence

<400> 21	
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gacatccaga tgacccagtc tccatcttcc ctgtctgcat ctgttaggaga cagagtcacc	120
atctcttgcc gcgcaagtca gaacattagg aactctgtaa attggatca gcagaaacca	180
gggaaagccc ctaagctcct gatctatgct acatacgatt tgcaagatgg cgcggccatca	240
tacttcagtg gcagtggatc tggacagat ttcactctca ccatcaccag tctgcaacct	300
gaagattttg caacttacta ctgtcaacag agttacagtt tccctcgaac gttcggccaa	360
gggaccaagg tggaaatcaac acgaactgtg gctgcaccat ctgtc	405

<210> 22
<211> 405
<212> DNA
<213> Artificial Sequence

<220>
<223> Light Chain nucleic acid sequence

<400> 22	
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gacatccaga tgacccagtc tccatcttcc ctgtctgcat ctgttaggaga cagaatcgcc	120
atcaacttgc gggcgagtca gggatttagc acctggtag cctggatca gcagagacca	180
gggagagccc ctaagctcct gatctatgct gcatccactt tgcaaaagcgg agtcccatca	240
aggttcagcg gcagtggatc tggacagat ttcactctca ccatcagcag cctgcagcct	300
gaagattttg caacttactt ttgtcaacag gctgacagtt tcccccgtac ttttggccag	360
gggaccaaac tggagatcaa acgaactgtg gctgcaccat ctgtc	405

<210> 23
<211> 405
<212> DNA
<213> Artificial Sequence

<220>
<223> Light Chain nucleic acid sequence

<400> 23	
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gacatccaga tgacccagtc tccatcttcc ctgtctgcat ctgttaggaga cagagtcacc	120
atcaacttgc gggcgagtca gggatttagc agatggtag cctggatca gcagaaacca	180
gggaaagccc ctaagctcct gatctatggt gcatccactt tgcaaaaagg ggtcccatca	240
aggttcacccg gcagtggatc tggacagat ttcactctca ccatcaccag cctgcagcct	300
gaagattttg caacttacta ttgtcaacag ggtacagtt tccattcac tttcggccct	360
gggaccaagg tggatatacaa acgaactgtg gctgcaccat ctgtc	405

<210> 24

<211> 405
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Light Chain nucleic acid sequence

<400> 24
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 atcaacttgcg gggcgagtgc ggttatttagc agatggtag cctggtatca gcagaaaacca 180
 gggaaagccc ctaagctcct gatctatggt gcatccactt tgcaaaaagg ggtcccatca 240
 aggttcaccg gcagtggatc tggacagat ttcactctca ccatcaccag cctgcagcct 300
 gaagattttg caacttacta ttgtcaacag gttAACAGTT tcccattcac ttccggccct 360
 gggaccaaaag tggatatcaa acgaactgtg gctgcaccat ctgtc 405

<210> 25
 <211> 405
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Light Chain nucleic acid sequence

<400> 25
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 gacatccaga tgacccagtc tccgtcttcc gtgtctgcat ctgttaggaga cagagtacc 120
 atcaacttgcg gggcgagtca ggttatttagc agctggtag cctggtatca gcagaagcc 180
 gggaaagccc ctaagttgc gatctatggt gcatccagtt tggaaagtgg ggtcccatca 240
 agattcagcg gcagtggatc tggacagat tacactctca ccatcaccag cctacagcct 300
 gaagattttg caacttactt ttgtcaacag gttAAATTCTT tccctcgat ttttggccag 360
 gggaccaagc tgaatatcaa acgaactgtg gctgcaccat ctgtc 405

<210> 26
 <211> 539
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Light Chain nucleic acid sequence

<400> 26
 gtgaaaaaat tattattcgc aattccttta gttgttcctt tctattctca cagtgcacag 60
 agcgaattga ctcagataag gggcagggtcttggagtc cagccgcttc tctggatcca 120
 aagatgctgc agccaatgca ggggtttac tcattccgg cctccagccc gaggatgtg 180
 ctgactattt ttgtatgata tggtaagca atgtacatgc gacattcggc ggaggagcca 240
 agctgaccgt cctgggtcag cccaaaggctg cccctcggt cactctgttc ccgcctcct 300
 ctgaggagct tcaagccaaac aaggccacac tggtgtgtct cataagtgac ttctacccgg 360
 gagccgtgac agtggcctgg aaggcagata gcagccccgt caaggcggga gtggagacca 420
 ccacaccctc caaacaaggc aacaacaagt acgcggccag cagctatcta agcctgacgc 480
 ctgagcgtg gaagtccac agaagctaca gctgccaggt cacgcataa gggagcacc 539

<210> 27
 <211> 411
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Light Chain nucleic acid sequence

<400> 27

gtgaaaaaat tattattcgc aattccttta gttgttcctt tctattctca cagtgcacag	60
agcgaattga ctcagccacc ctcagcgtct gcgcaccccg ggcagagggt caccatctct	120
tgttctggaa gcagctccaa catcgacgt aatttggtat actggtagcca gcagctccca	180
ggaacggccc ccaaactcct catctatagt aataatcagc ggccctcagg ggtccctgac	240
cgattctctg gctccaagtc tggcacctca gcctccctgg ccatcagtgg gctccggtcc	300
gaggaggagg ctgattattt ctgtgcagca tggatgaca gcctgagtgg ttgggtgttc	360
ggcggaggga ccaggctgac cgtcctaggt cagcccaagg ctgccccctc g	411

<210> 28

<211> 411

<212> DNA

<213> Artificial Sequence

<220>

<223> Light Chain nucleic acid sequence

<400> 28

gtgaaaaaat tattattcgc aattccttta gttgttcctt tctattctca cagtgcacag	60
agcgcttga ctcagccacc ctcagcgtct gggaccccg ggcagagggt caccatctct	120
tgttctggaa gcagctccaa catcgaaat aattttgtat actggtagcca ccatctccca	180
ggaacggccc ccaaactcct catctatagg aataatcagc ggccctcagg ggtccctgac	240
cgattctctg gctccaagtc tggcacctca gcctccctgg ccatcagtgg gctccggtcc	300
gaggatgagg ctgattattt ctgtgcagca tggatgaca gcctgagtgg ggtggatttc	360
ggcggaggga ccaagctgac cgtcctaggt cagcccaagg ctgccccctc g	411

<210> 29

<211> 414

<212> DNA

<213> Artificial Sequence

<220>

<223> Light Chain nucleic acid sequence

<400> 29

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agcgcttga ctcagcctgc ctccgtgtct gggctctctg gacagtcgat caccatctcc	120
tgcactggaa ccagcagtga cgttggttat tatgactatg tctcctggta ccagcaccac	180
ccaggcaaaag ccccaaaact catcatttat gatgtcaatt ctccggccctc aggggtctct	240
tctcatttct ctggctccaa gtctggcaac acggccctccc tgaccatctc tgggtccag	300
gctgtgacg aggctgatta ttactgcagc tcatatacaa gcggcagcac ccgttatgtc	360
ttcggacctg ggaccaaggt caccgtccta ggtcagccca aggccaaccc cact	414

<210> 30

<211> 414

<212> DNA

<213> Artificial Sequence

<220>

<223> Light Chain nucleic acid sequence

<400> 30

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agcgcttga ctcagcctgc ctccgtgtct gggctctctg gacagtcgat caccatctcc	120

tgcaactggaa ccagcagtga cgttggttat tatgactatg tctcctggta ccagcaccac	180
ccaggcaaag ccccaaact catcattat gatgtcactt ctcggccctc aggggtctct	240
tctcatttct ctggctccaa gtctggcaac acggccccc tgaccatctc tggactccag	300
gctgatgacg aggctgatta ttactgcagc tcataataaa gcggcagcac ccgttatgtc	360
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<210> 31	
<211> 414	
<212> DNA	
<213> Artificial Sequence	
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<223> Light Chain nucleic acid sequence	
<400> 31	
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agcgtcttga ctcagactgc ctccgtgtct gggtctcctg gacagtcgat caccatctcc	120
tgcactggaa ccagcagtga cattggtgat tatgagtatg tctcctggta ccaacaacac	180
ccaggcaaag ccccaaagt cattctttat gaggtcagta atcggccctc aggggtccct	240
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gctgaggacg aggctgatta ttactgtggt tcataataaa agagcagcac tccttatgtc	360
ttcggaaactg ggaccaaggt cagcgtccta ggtcagccc aggccaaccc cact	414
<210> 32	
<211> 414	
<212> DNA	
<213> Artificial Sequence	
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<400> 32	
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agcgtcttga ctcagactgc ctccgtgtct gggtctcctg gacagtcgat caccatctcc	120
tgcactggaa ccagcagtga cattggtgat tatgagtatg tctcctggta ccaacaacac	180
ccaggcaaag ccccaaagt cattctttat gaggtcagta atcggccctc aggggtccct	240
gatcgcttct ctggctccaa gtctggcaac acggccctcac tgaccatctc tggactccag	300
gctgaggacg aggctgatta ttactgtggt tcataataaa agagcagcac tccttatgtc	360
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<210> 33	
<211> 560	
<212> DNA	
<213> Artificial Sequence	
<220>	
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<400> 33	
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agcgtcttga ctcagccacc ctcagcgtct gggacccccc ggcagagggt caccatctct	120
tgttctggaa gcagctccaa catcgaaagt aataactgtaa cctggtagcca gcaactccca	180
ggaacggccc ccaaactcct catctataagt gatgatcagc ggccctcagg ggtccctgac	240
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ggcggaggga ccaagctgac cgtcctgagt cagcccaagg ctgccccctc ggtcaactctg	420
ttcccccct cctctgagga gttcaagcc aacaaggcca cactgggtgt tctcataagt	480

gacttctacc	cgggagccgt	gacagtggcc	tggaaggcag	atagcagccc	cgtcaaggcg	540
ggagtggaga	ccaccacacc					560

<210> 34
 <211> 429
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Light Chain nucleic acid sequence

<400> 34						
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tgcaccctga	gcagcggcta	cagtaattat	aaagtggact	ggtatcagca	aagaccagg	180
aaggcccccc	agtttgtat	gctggggc	agtggggaa	ttgtgggatc	aaagggggat	240
ggcatccctg	atcgctttc	atgcctggc	tcaggcctgt	atcggtatct	gaccatcaag	300
aacatccagg	aagaggatga	gagtgactac	tattgtggg	cagaccatgg	cagggggggc	360
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gccccctcg						429

<210> 35
 <211> 411
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Light Chain nucleic acid sequence

<400> 35						
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agcgtcttga	ctcagcctgc	ctccgtgtct	gggtctcctg	gacagtcgtat	caccatctcc	120
tgcactggaa	ccagcagtga	cgttgggtgg	tataactatg	tctcctggta	ccaacgacac	180
ccaggcaag	cccccaact	cattattt	gatgtcacta	atcgcccctc	aggggcttct	240
cgtcacttct	ctggctccaa	gtctggcaac	acggcctccc	tgaccatctc	tggctccag	300
ggcgcacgac	aggctgatta	ttattgcgtt	tcatttacaa	acagcaatac	tttcgtcttc	360
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<210> 36
 <211> 417
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Light Chain nucleic acid sequence

<400> 36						
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atctcctgca	agtctagtca	gagcctcctg	cagagtaatg	gatacaacta	cttggattgg	180
tacctgcaga	agccaggcga	gtctccacag	ctcctgatct	atttgggttc	taatcggg	240
tccggggtcc	ctgacagg	cagtggcagt	ggatcaggca	cagat	ttacactact	300
agcagggtgg	aggctgagga	tgttggcatt	tattactgca	tgcaagctct	acacactcct	360
cccttcggcc	aaggacacg	actggagatt	aaacgaactg	tggctgcacc	atctgtc	417

<210> 37
 <211> 405

<212> DNA
 <213> Artificial Sequence

<220>
 <223> Light Chain nucleic acid sequence

<400> 37

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tgcctctggag ataaattggg ggataaatat gttgcctggat atcagcagaa gccaggccag	180
tccctgtgc tggctgtcta tgaagataac aagcggccct cagggatccc tgagcgaatt	240
tctggctcca actctggaa cacagccact ctgaccatca gtgggaccctt ggctatggat	300
gacgctgact attactgtca ggcgtggac agaagactg accattatgt ctgcggaaact	360
gggaccaagg tcaccgtcctt aggtcagccca aaggccaacc ccact	405

<210> 38
 <211> 414
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Light Chain nucleic acid sequence

<400> 38

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tgcactggaa ccagcagcga cgttgggtgt tataactatg ttcctggta ccaacagcac	180
ccaggcaaaag ccccaaaactt catgattttt gaggtcagta atcggccctc aggggtttct	240
aatcgcttctt ctggctccaa gtctgacaat acggccctcc tgaccatctc tggactccag	300
gctgaggacg aggctgatta ttactgtggat tcataatagaa agagcagcac tccttatgtc	360
ttcgaaactg ggaccaaggt cagcgtccta ggtcagccca aggccaacc cact	414

<210> 39
 <211> 413
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Light Chain nucleic acid sequence

<400> 39

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cttgcgttgg aagcagctac aacatcgag tttatgtatgt atactgttac cagcagctcc	180
caggaacggc ccccaaaactc ctcatctata ccaataatca gcggccctca ggggtccctg	240
accgattctc tggctccaaag tctggcacct cagcctccctt ggccatcagt gggctccagt	300
ctgaggatga ggctgattat tactgtgcag catggatga cagtctgagt ggttgggtgt	360
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<210> 40
 <211> 387
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Heavy Chain nucleic acid sequence

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gtttccCG						369
<210> 44						
<211> 369						
<212> DNA						
<213> Artificial Sequence						
<220>						
<223> Heavy Chain nucleic acid sequence						
<400> 44						
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gtttccCG						369
<210> 45						
<211> 369						
<212> DNA						
<213> Artificial Sequence						
<220>						
<223> Heavy Chain nucleic acid sequence						
<400> 45						
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cctggtaaag	gtttggagtg	ggttctgg	atctctcctt	ctggTggcct	tactacttat	180
gctgactccg	ttaaaggTCG	cttcactatac	tctagagaca	actctaagaa	tactctctac	240
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<210> 46						
<211> 393						
<212> DNA						
<213> Artificial Sequence						
<220>						
<223> Heavy Chain nucleic acid sequence						
<400> 46						
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catggtaaag	gtttggagtg	ggttcttat	atctctcctt	ctggTggcaa	gacttttat	180
gctgactccg	ttaaaggTCG	cttcactatac	tctagagaca	actctaagaa	tactctctac	240
ttgcagatga	acagcttaag	ggctgaggac	actgcagtct	actattgtgc	gagacattt	300
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<210> 47						
<211> 390						
<212> DNA						

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cctggtaaag gtttggagtg gtttcttct atctattctt ctggtggtt tacttggat	180
gctgactccg ttaaaggctcg cttcaactatc tctagagaca actctaagaa tactctctac	240
ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagtgacttt	300
ggtagctggg gccagggAAC cctggtcacc gtctcaagcg cctccaccaa gggcccatcg	360
gtcttcccg	369

<210> 51
 <211> 420
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Heavy Chain nucleic acid sequence

<400> 51	
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cctggtaaag gtttggagtg gtttcttct atctggtctt ctggtggtcac tactgagtat	180
gctgactccg ttaaaggctcg cttcaactatc tctagagaca actctaagaa tactctctac	240
ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagagaggaa	300
attggacgat attttgactg gtttttaggg aactactact actacggat ggacgtctgg	360
ggccaaggga ccacggtcac cgtctcaagc gcctccacca agggcccac ggtcttcccg	420

<210> 52
 <211> 411
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Heavy Chain nucleic acid sequence

<400> 52	
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tggacgtat tactatggtt cggggaggtt agtgctgctt ttgatatctg gggccaaggaa	360
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<210> 53
 <211> 369
 <212> DNA
 <213> Unknown

<220>

<223> Light Chain nucleic acid sequence

<400> 53	
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aactggtacc agcagctccc aggaacggcc cccaaactcc tcatctatacg taataattac	180
cggccctcag gggccctga ccgattctct ggctccaagt ctggcacctc agcctccctg	240
ccatcgttgg ggcgtccagtc tgacgtatc tctgtgcagc atggatgac	300

agtctgaatg	gtccgggtt	cgtggaggg	accaaggtga	ccgtcctagg	tcagcccaag	360
gctcccccc						369
<210> 54						
<211> 396						
<212> DNA						
<213> Artificial Sequence						
<220>						
<223> Heavy Chain nucleic acid sequence						
<400> 54						
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cctggtaaag	gtttggagtg	ggtttctgg	atctatcctt	ctgggtggcgt	tactcgttat	180
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agcagcagct	ggtacgggtg	gtactttgac	tactggggcc	aggaaaccct	ggtcaccgtc	360
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<210> 55						
<211> 396						
<212> DNA						
<213> Artificial Sequence						
<220>						
<223> Heavy Chain nucleic acid sequence						
<400> 55						
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ttgcagatga	acagcttaag	ggctgaggac	actgcagtct	actattgtgc	gagatttaggt	300
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<210> 56						
<211> 396						
<212> DNA						
<213> Artificial Sequence						
<220>						
<223> Heavy Chain nucleic acid sequence						
<400> 56						
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cctggtaaag	gtttggagtg	ggtttcttat	atctcttctt	ctgggtggcaa	gactatgtat	180
gctgactccg	ttaaaggctcg	cttcactatac	tctagagaca	actctaaagaa	tactctctac	240
ttgcagatga	acagcttaag	ggctgaggac	actgcagtct	actattgtgc	gagatttaggt	300
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<210> 57						
<211> 390						
<212> DNA						

<213> Unknown

<220>

<223> Heavy Chain nucleic acid sequence

<400> 57

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cctggtaaag	gtttggagtg	ggttcttgg	atctcttctt	ctgggtggcta	tacttcttat	180
gctgactccg	ttaaaggctcg	cttcactatc	tctagagaca	actctaaagaa	tactctctac	240
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gggaccgcgg	gtgactactg	gggccaggga	accctggta	ccgtctcaag	cgcctccacc	360
aaggccccat	cggcttccc	gctagcaccc				390

<210> 58

<211> 351

<212> DNA

<213> Artificial Sequence

<220>

<223> Heavy Chain nucleic acid sequence

<400> 58

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cctggtaaag	gtttggagtg	ggttctcggt	atcggttctt	ctgggtttta	ctcattatgc	180
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gcagatgaac	agcttaaggg	ctgaggacac	tgcagtctac	tattgtgcga	gaccaccct	300
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<210> 59

<211> 369

<212> DNA

<213> Artificial Sequence

<220>

<223> Heavy Chain nucleic acid sequence

<400> 59

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tcttcgcgtg	cttccggatt	cactttctct	aattacgcta	tggattgggt	tcgccaagct	120
cctggtaaag	gtttggagtg	ggttcttat	atctctcctt	ctgggtggcta	tactcggtat	180
gctgactccg	ttaaaggctcg	cttcactatc	tctagagaca	actctaaagaa	tactctctac	240
ttgcagatga	acagcttaag	ggctgaggac	actgcagtct	actattgtgc	gagtgacttt	300
ggtagctggg	gccagggAAC	cctggtcacc	gtctcaagcg	cctccaccaa	ggcccatcg	360
gtttcccg						369

<210> 60

<211> 396

<212> DNA

<213> Artificial Sequence

<220>

<223> Heavy Chain nucleic acid sequence

<400> 60

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ttgcagatga	acagcttaag	ggctgaggac	actgcagtct	actattgtgc	gagagtaagg	300
gcgcccggct	actactacta	cggtatggac	gtctggggcc	aagggaccac	ggtcaccgtc	360
tcaagcgcct	ccaccaaggg	cccatcggtc	ttcccg			396

<210> 61
<211> 396
<212> DNA
<213> Artificial Sequence

<220>
<223> Heavy Chain nucleic acid sequence

<400> 61						
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cctggtaaag	gtttggagtg	ggtttctgtt	atccgtcctt	ctgggtggcaa	gactggttat	180
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<210> 62
<211> 351
<212> DNA
<213> Artificial Sequence

<220>
<223> Heavy Chain nucleic acid sequence

<400> 62						
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<210> 63
<211> 414
<212> DNA
<213> Artificial Sequence

<220>
<223> Heavy Chain nucleic acid sequence

<400> 63						
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ggccatagca	gcagctggta	caatcattac	tactactact	acatggacgt	ctggggcaaa	360
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<210> 64
 <211> 393
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Heavy Chain nucleic acid sequence

<400> 64
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 gactccgtta aaggtcgctt cactatctc agagacaact ctaagaatac tctctacttg 240
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<210> 65
 <211> 384
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Heavy Chain nucleic acid sequence

<400> 65
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<210> 66
 <211> 393
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Heavy Chain nucleic acid sequence

<400> 66
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 cctggtaaag gtttggagtg gtttctcgat atctatcctt ctgggtggcca tacttggat 180
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<210> 67
 <211> 393
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Heavy Chain nucleic acid sequence

<400> 67
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<210> 68

<211> 414

<212> DNA

<213> Artificial Sequence

<220>

<223> Heavy Chain nucleic acid sequence

<400> 68

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gctgactccg ttaaagggtcg cttcaactatc tcttagagaca actctaagaa tactctctac  
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<210> 69

<211> 414

<212> DNA

<213> Artificial Sequence

<220>

<223> Heavy Chain nucleic acid sequence

<400> 69

aaagttcaat	tgttagagtc	tggtggcggt	cttggtcagc	ctgggtggttc	tttacgtctt	60
tcttgcgctg	cttccggatt	cactttctct	tattaccata	tgtggtggtt	tcgccaagct	120
cctggtaaag	gttggagtg	ggtttctgtt	atcgttcctt	ctgggtggcg	tactcagtat	180
gctgactccg	ttaaaggctcg	cttcaactatc	tcttagagaca	actctaagaa	tactctctac	240
ttgcagatga	acagcttaag	ggctgaggac	actgcagtc	actattgtgc	gagagatgga	300
catagcagca	gctggtaacgg	tgggggagcc	cactactacg	gtatggacgt	ctggggccaa	360
gggaccacgg	tcaccgtctc	aagcgcctcc	accaaggggcc	catcggtctt	cccg	414

<210> 70

<211> 396

<212> DNA

<213> Artificial Sequence

<220>

<223> Heavy Chain nucleic acid sequence

<400> 70

gaagttcaat	tgttagagtc	tggtggcggt	cttgcggc	ctgggtggttc	tttacgtctt	60
tcttgcgctg	cttccggatt	cactttctct	ccttaccgta	tggattgggt	tcgccaagct	120
cctggtaaag	gttggagtg	ggtttcttat	atctatcctt	ctgggtggctt	tactccttat	180

gctgactccg ttaaaggctcg cttcaactatc tctagagaca actctaagaa tactttctac	240
ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gaaaggttca	300
acgggatacc gctactacta cggtatggac gtctgggccc aagggaccac ggtcaccgtc	360
tcaagcgcct ccaccaaggg cccatcggtc ttcccg	396

<210> 71
<211> 408
<212> DNA
<213> Artificial Sequence

<220>
<223> Heavy Chain nucleic acid sequence

<400> 71	
gaagttcaat tgtagagtc tggggcggt cttgttcagc ctgggtggttc tttacgtctt	60
tcttcgctg cttccggatt cacttctct tacaagatga tgggggttcg ccaagctcct	120
ggtaaagggtt tggagggtt ttcttatac tcttcttctg gtggcattac tacttatgct	180
gactccgtta aaggtcgctt cactatctct agagacaact ctaagaatac tctctacttg	240
cagatgaaca gcttaagggc tgaggacact gcagtctact attgtgcgag agacccgact	300
tacgattttt ggagtggta ttactactac tactacatgg acgtctgggg caaagggacc	360
acggtcacccg tctcaagcgc ctccaccaag ggcccatcggtc ttcccg	408

<210> 72
<211> 414
<212> DNA
<213> Artificial Sequence

<220>
<223> Heavy Chain nucleic acid sequence

<400> 72	
gaagttcaat tgtagagtc tggggcggt cttgttcagc ctgggtggttc tttacgtctt	60
tcttcgctg cttccggatt cacttctct cttaccata tggattgggt tcgccaagct	120
cctggtaaag gtttggagtg gtttctgtt atctatcctt ctgggtggcgg tactccttat	180
gctgactccg ttaaaggctcg cttcaactatc tctagagaca actctaagaa tactctctac	240
ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagacgggta	300
ggatattgtt gtgggtgtt ctgctactac tactactact acatggacgt ctggggcaaa	360
gggaccacccg tcaccgtctc aagcgcctcc accaagggcc catcggtctt cccg	414

<210> 73
<211> 396
<212> DNA
<213> Artificial Sequence

<220>
<223> Heavy Chain nucleic acid sequence

<400> 73	
gaagttcaat tgtagagtc tggggcggt cttgttcagc ctgggtggttc tttacgtctt	60
tcttcgctg cttccggatt cacttctct tggtactgga tgaattgggt tcgccaagct	120
cctggtaaag gtttggagtg gtttcttct atctattctt ctgggtggcta tacttcttat	180
gctgactccg ttaaaggctcg cttcaactatc tctagagaca actctaagaa tactctctac	240
ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagagttcg	300
gatattttgtt ctggccctt ctactttgac tactggggcc agggaaaccct ggtcaccgtc	360
tcaagcgcct ccaccaaggg cccatcggtc ttcccg	396

<210> 74

<211> 393
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Heavy Chain nucleic acid sequence

<400> 74

gaagttcaat	tgttagagtc	tggtggcggt	cttgcgcgt	cttgcgcgt	tttacgtctt	60
tcttcggatt	cacttctct	aattaccgt	tgccttgggt	tcgccaagct	120	
cctggtaaag	gtttggagtg	ggtttcttat	atctattctt	ctggtggcat	180	
gctgactccg	ttaaaggctcg	cttcactatc	tctagagaca	actctaagaa	240	
ttgcagatga	acagcttaag	ggctgaggac	actgcagtct	actattgtgc	300	
tcttactatg	gttcggggtc	gtcgcggta	tggggccagg	gagatcgca	360	
agcgcccca	ccaaggcccc	atcggtcttc	ccg	caccgtctca	393	

<210> 75
 <211> 405
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Heavy Chain nucleic acid sequence

<400> 75

gaagttcaat	tgttagagtc	tggtggcggt	cttgcgcgt	cttgcgcgt	tttacgtctt	60
tcttcggatt	cacttctct	cagtacatga	tgacttgggt	tcgccaagct	120	
cctggtaaag	gtttggagtg	ggtttcttat	atcggtctt	ctggtggcca	180	
gctgactccg	ttaaaggctcg	cttcactatc	tctagagaca	actctaagaa	240	
ttgcagatga	acagcttaag	ggctgaggac	actgcagtct	actattgtgc	300	
ggggtagcag	tggctggta	ctactactac	ggtatggacg	tctggggcca	360	
gtcaccgtct	caagcgccctc	caccaaggcc	ccatcggtct	tcccg	405	

<210> 76
 <211> 411
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Heavy Chain nucleic acid sequence

<400> 76

gaagttcaat	tgttagagtc	tggtggcggt	cttgcgcgt	cttgcgcgt	tttacgtctt	60
tcttcggatt	cacttctct	cagtacaata	tgccttgggt	tcgccaagct	120	
cctggtaaag	gtttggagtg	ggtttctct	atcggtcctt	ctggtggctt	180	
gctgactccg	ttaaaggctcg	cttcactatc	tctagagaca	actctaagaa	240	
ttgcagatga	acagcttaag	ggctgaggac	actgcagtct	actattgtgc	300	
tgttagtggtg	gtagctgcta	ccggggccc	caaaactact	ttgactactg	360	
accctggta	ccgtctcaag	cgccctccacc	aaggccccat	cggtcttccc	411	

<210> 77
 <211> 351
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Heavy Chain nucleic acid sequence

<400> 77

gaagttcaat	tgttagagtc	tggggcggt	cttgcgcgc	ctgggggttc	tttacgtctt	60
tcttcgcgt	cttccggatt	cacttctct	atgtactata	tggtttgggt	tcgccaagct	120
cctggtaagg	tttggagtgg	gtttctgtta	tcgttcttc	ttggggcaact	actgagttatg	180
ctgactccgt	taaaggcgc	ttcactatct	ctagagacaa	ctctaagaat	actctctact	240
tgcagatgaa	cagcttaagg	gctgaggaca	ctgcagtcta	ctattgtgcg	agaggggat	300
attgttagtgg	tggcagggtgt	tacacctggc	tcgaagacta	ctggggccag	g	351

<210> 78

<211> 110

<212> PRT

<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 78

Gln	Ser	Val	Leu	Thr	Gln	Pro	Pro	Ser	Ala	Ser	Gly	Thr	Pro	Gly	Gln
1					5				10				15		
Arg	Val	Thr	Ile	Ser	Cys	Ser	Gly	Ser	Ser	Ser	Asn	Ile	Glu	Ser	Asn
								20	25				30		
Thr	Val	Thr	Trp	Tyr	Gln	Gln	Leu	Pro	Gly	Thr	Ala	Pro	Lys	Leu	Leu
								35	40			45			
Ile	Tyr	Ser	Asp	Asp	Gln	Arg	Pro	Ser	Gly	Val	Pro	Asp	Arg	Phe	Ser
								50	55			60			
Gly	Ser	Lys	Ser	Gly	Thr	Ser	Ala	Ser	Leu	Ala	Ile	Ser	Gly	Leu	Gln
								65	70			75		80	
Ser	Glu	Asp	Glu	Ala	Asp	Tyr	Tyr	Cys	Ala	Thr	Trp	Asp	Asn	Thr	Leu
								85	90			95			
Arg	Gly	Val	Val	Phe	Gly	Gly	Thr	Lys	Leu	Thr	Val	Leu			
								100	105			110			

<210> 79

<211> 132

<212> PRT

<213> Artificial Sequence

<220>

<223> Heavy Chain amino acid sequence

<400> 79

Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1					5				10			15			
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Pro	Tyr
								20	25			30			
Arg	Met	Asp	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val
								35	40			45			
Ser	Tyr	Ile	Tyr	Pro	Ser	Gly	Gly	Phe	Thr	Pro	Tyr	Ala	Asp	Ser	Val
								50	55			60			
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Phe	Tyr
								65	70			75		80	
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
								85	90			95			
Ala	Lys	Gly	Ser	Thr	Gly	Tyr	Arg	Tyr	Tyr	Tyr	Gly	Met	Asp	Val	Trp
								100	105			110			
Gly	Gln	Gly	Thr	Thr	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro

115 120 125

Ser Val Phe Pro

130

<210> 80

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetically generated peptide

<400> 80

Ser Gly Ser Ser Ser Asn Ile Glu Ser Asn Thr Val Thr

1 5 10

<210> 81

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetically generated peptide

<400> 81

Ser Asp Asp Gln Arg Pro Ser

1 5

<210> 82

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetically generated peptide

<400> 82

Ala Thr Trp Asp Asn Thr Leu Arg Gly Val Val

1 5 10

<210> 83

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetically generated peptide

<400> 83

Pro Tyr Arg Met Asp

1 5

<210> 84

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetically generated peptide

<400> 84

Tyr	Ile	Tyr	Pro	Ser	Gly	Gly	Phe	Thr	Pro	Tyr	Ala	Asp	Ser	Val	Lys
1					5				10						15
Gly															

<210> 85

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetically generated peptide

<400> 85

Gly	Ser	Thr	Gly	Tyr	Arg	Tyr	Tyr	Tyr	Gly	Met	Asp	Val
1					5				10			

<210> 86

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 86

Gln	Asp	Ile	Val	Met	Thr	Gln	Thr	Pro	Pro	Ser	Leu	Pro	Val	Asn	Pro
1					5				10					15	

Gly	Glu	Pro	Ala	Ser	Ile	Ser	Cys	Lys	Ser	Ser	Gln	Ser	Leu	Leu	Gln
					20			25			30				

Ser	Asn	Gly	Tyr	Asn	Tyr	Leu	Asp	Trp	Tyr	Leu	Gln	Lys	Pro	Gly	Gln
					35			40			45				

Ser	Pro	Gln	Leu	Leu	Ile	Tyr	Leu	Gly	Ser	Asn	Arg	Ala	Ser	Gly	Val
					50			55			60				

Pro	Asp	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Lys
					65			70		75			80		

Ile	Ser	Arg	Val	Glu	Ala	Glu	Asp	Val	Gly	Ile	Tyr	Tyr	Cys	Met	Gln
					85			90			95				

Ala	Leu	His	Thr	Pro	Pro	Phe	Gly	Gln	Gly	Thr	Arg	Leu	Glu	Ile	Lys
					100			105			110				

Arg	Thr	Val	Ala	Ala	Pro	Ser	Val
					115		120

<210> 87

<211> 132

<212> PRT

<213> Artificial Sequence

<220>

<223> Heavy Chain amino acid sequence

<400> 87

Glu Val Gln Leu Leu Glu Ser Gly Gly Leu Val Gln Pro Gly Gly

1	5	10	15												
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Trp	Tyr
20								25						30	
Trp	Met	Asn	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val
35								40						45	
Ser	Ser	Ile	Tyr	Ser	Ser	Gly	Gly	Tyr	Thr	Ser	Tyr	Ala	Asp	Ser	Val
50							55					60			
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr
65							70				75			80	
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
85								90						95	
Ala	Arg	Val	Arg	Asp	Ile	Leu	Thr	Gly	Pro	Tyr	Tyr	Phe	Asp	Tyr	Trp
100								105						110	
Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro
115								120						125	
Ser	Val	Phe	Pro												
130															

<210> 88

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetically generated peptide

<400> 88

Lys	Ser	Ser	Gln	Ser	Leu	Leu	Gln	Ser	Asn	Gly	Tyr	Asn	Tyr	Leu	Asp
1					5									10	15

<210> 89

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetically generated peptide

<400> 89

Leu	Gly	Ser	Asn	Arg	Ala	Ser
1					5	

<210> 90

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetically generated peptide

<400> 90

Met	Gln	Ala	Leu	His	Thr	Pro	Pro
1					5		

<210> 91

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetically generated peptide

<400> 91

Trp Tyr Trp Met Asn
1 5

<210> 92

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetically generated peptide

<400> 92

Ser Ile Tyr Ser Ser Gly Gly Tyr Thr Ser Tyr Ala Asp Ser Val Lys
1 5 10 15
Gly

<210> 93

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetically generated peptide

<400> 93

Val Arg Asp Ile Leu Thr Gly Pro Tyr Tyr Phe Asp Tyr
1 5 10

<210> 94

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 94

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Arg His
20 25 30

Tyr Leu Gly Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Arg Leu
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Phe Gly Val Pro Ala Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln His Asn Ser Phe Pro
85 90 95

Pro Ala Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala

100
 Ala Pro Ser Val
 115

105

110

<210> 95
 <211> 132
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heavy Chain amino acid sequence

<400> 95
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Pro Tyr
 20 25 30
 Asp Met Trp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Tyr Ile Ser Ser Ser Gly Gly Lys Thr Met Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Leu Gly Gly Asn Ser His Tyr Tyr Tyr Gly Met Asp Val Trp
 100 105 110
 Gly Gln Gly Thr Thr Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro
 115 120 125
 Ser Val Phe Pro
 130

<210> 96
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetically generated peptide

<400> 96
 Arg Ala Ser Gln Gly Ile Arg His Tyr Leu Gly
 1 5 10

<210> 97
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetically generated peptide

<400> 97
 Ala Ala Ser Ser Leu Gln Phe
 1 5

<210> 98

<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetically generated peptide

<400> 98
Leu Gln His Asn Ser Phe Pro Pro Ala
1 5

<210> 99
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetically generated peptide

<400> 99
Pro Tyr Asp Met Trp
1 5

<210> 100
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetically generated peptide

<400> 100
Tyr Ile Ser Ser Ser Gly Gly Lys Thr Met Tyr Ala Asp Ser Val Lys
1 5 10 15
Gly

<210> 101
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetically generated peptide

<400> 101
Leu Gly Gly Asn Ser His Tyr Tyr Tyr Gly Met Asp Val
1 5 10

<210> 102
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
<223> Light Chain amino acid sequence

<400> 102
 Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Val Ser Ala Ser Val
 1 5 10 15
 Gly Asp Arg Ile Ala Ile Thr Cys Arg Ala Ser Gln Gly Ile Ser Thr
 20 25 30
 Trp Leu Ala Trp Tyr Gln Gln Arg Pro Gly Arg Ala Pro Lys Leu Leu
 35 40 45
 Ile Tyr Ala Ala Ser Thr Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
 50 55 60
 Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
 65 70 75 80
 Pro Glu Asp Phe Ala Thr Tyr Phe Cys Gln Gln Ala Asp Ser Phe Pro
 85 90 95
 Leu Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg Thr Val Ala
 100 105 110
 Ala Pro Ser Val
 115

<210> 103

<211> 123

<212> PRT

<213> Artificial Sequence

<220>

<223> Heavy Chain amino acid sequence

Heavy Chain amino acid sequence
 Heavy Chain amino acid sequence

Heavy Chain amino acid sequence

Heavy Chain amino acid sequence

<400> 103

Glu Val Gln Leu Leu Glu Ser Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asn Tyr
 20 25 30
 Ala Met Asp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Tyr Ile Ser Pro Ser Gly Gly Tyr Thr Arg Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Ser Asp Phe Gly Ser Trp Gly Gln Gly Thr Leu Val Thr Val Ser
 100 105 110
 Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro
 115 120

<210> 104

<211> 11

<212> PRT

<213> Artificial Sequence

<220>
<223> Synthetically generated peptide

<400> 104
Arg Ala Ser Gln Gly Ile Ser Thr Trp Leu Ala
1 5 10

<210> 105
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetically generated peptide

<400> 105
Ala Ala Ser Thr Leu Gln Ser
1 5

<210> 106
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetically generated peptide

<400> 106
Gln Gln Ala Asp Ser Phe Pro Leu Thr
1 5

<210> 107
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetically generated peptide

<400> 107
Asn Tyr Ala Met Asp
1 5

<210> 108
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetically generated peptide

<400> 108
Tyr Ile Ser Pro Ser Gly Gly Tyr Thr Arg Tyr Ala Asp Ser Val Lys
1 5 10 15
Gly

<210> 109
 <211> 4
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetically generated peptide

<400> 109
 Asp Phe Gly Ser
 1

<210> 110
 <211> 117
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Light Chain amino acid sequence

<400> 110
 Gln Asp Ile Gln Met Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro
 1 5 10 15
 Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Ile Ser Ser
 20 25 30
 Ser Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu
 35 40 45
 Leu Ile Tyr Ala Ala Ala Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe
 50 55 60
 Ser Gly Ile Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu
 65 70 75 80
 Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Arg Ser Asn Trp
 85 90 95
 Pro Leu Thr Phe Gly Gly Thr Lys Val Glu Ile Lys Arg Thr Val
 100 105 110
 Ala Ala Pro Ser Val
 115

<210> 111
 <211> 131
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heavy Chain amino acid sequence

<400> 111
 Glu Val Gln Leu Leu Glu Ser Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Tyr
 20 25 30
 His Met Glu Trp Val Arg Gln Ala His Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Tyr Ile Ser Pro Ser Gly Gly Lys Thr Leu Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Ala Arg His Leu Gly Tyr Gly Ser Gly Ser Tyr Phe Asp Tyr Trp Gly
100 105 110
Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser
115 120 125
Val Phe Pro
130

<210> 112
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetically generated peptide

<400> 112
Arg Ala Ser Gln Ser Ile Ser Ser Ser Tyr Leu Ala
1 5 10

<210> 113
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetically generated peptide

<400> 113
Ala Ala Ala Ser Arg Ala Thr
1 5

<210> 114
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetically generated peptide

<400> 114
Gln Gln Arg Ser Asn Trp Pro Leu Thr
1 5

<210> 115
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetically generated peptide

<400> 115
Arg Tyr His Met Glu
1 5

<210> 116
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetically generated peptide

<400> 116
 Tyr Ile Ser Pro Ser Gly Gly Lys Thr Leu Tyr Ala Asp Ser Val Lys
 1 5 10 15
 Gly

<210> 117
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetically generated peptide

<400> 117
 His Leu Gly Tyr Gly Ser Gly Ser Tyr Phe Asp Tyr
 1 5 10

<210> 118
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Light Chain amino acid sequence

<400> 118
 Gln Tyr Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
 1 5 10 15
 Thr Ala Thr Ile Ile Cys Ser Gly Asp Lys Leu Gly Asp Lys Tyr Val
 20 25 30
 Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Val Tyr
 35 40 45
 Glu Asp Asn Lys Arg Pro Ser Gly Ile Pro Glu Arg Ile Ser Gly Ser
 50 55 60
 Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met
 65 70 75 80
 Asp Asp Ala Asp Tyr Tyr Cys Gln Ala Trp Asp Arg Ser Thr Asp His
 85 90 95
 Tyr Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly Gln Pro Lys
 100 105 110
 Ala Asn Pro Thr
 115

<210> 119
 <211> 131
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Heavy Chain amino acid sequence

<400> 119

Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1															
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Asn	Tyr
20															
Arg	Met	Pro	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val
35															
Ser	Tyr	Ile	Tyr	Ser	Ser	Gly	Gly	Ile	Thr	Gln	Tyr	Ala	Asp	Ser	Val
50															
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr
65															
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
85															
Ala	Arg	Ser	Arg	Ser	Tyr	Tyr	Gly	Ser	Gly	Ser	Ser	Arg	Tyr	Trp	Gly
100															
Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser
115															
Val	Phe	Pro													
130															

<210> 120

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetically generated peptide

<400> 120

Ser	Gly	Asp	Lys	Leu	Gly	Asp	Lys	Tyr	Val	Ala
1										

<210> 121

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetically generated peptide

<400> 121

Glu	Asp	Asn	Lys	Arg	Pro	Ser
1						

<210> 122

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetically generated peptide

<400> 122

Gln Ala Trp Asp Arg Ser Thr Asp His Tyr Val

1 5 10

<210> 123
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetically generated peptide

<400> 123
Asn Tyr Arg Met Pro
1 5

<210> 124
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetically generated peptide

<400> 124
Tyr Ile Tyr Ser Ser Gly Gly Ile Thr Gln Tyr Ala Asp Ser Val Lys
1 5 10 15
Gly

<210> 125
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetically generated peptide

<400> 125
Ser Arg Ser Tyr Tyr Gly Ser Gly Ser Ser Arg Tyr
1 5 10

<210> 126
<211> 108
<212> PRT
<213> Unknown

<220>
<223> Synthetically generated peptide

<223> Light Chain amino acid sequence

<400> 126
Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Phe Ser Ala Ser Thr
1 5 10 15
Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Ser Ser
20 25 30
Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Ala Ala Ser Thr Leu Gln Ser Gly Val Pro Ser Lys Phe Ser
 50 55 60
 Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
 65 70 75 80
 Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Asn Ser Tyr Pro
 85 90 95
 Leu Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
 100 105

<210> 127
 <211> 123
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heavy Chain amino acid sequence

<400> 127
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Trp Tyr
 20 25 30
 Thr Met Val Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Ser Ile Tyr Ser Ser Gly Gly Phe Thr Trp Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Ser Asp Phe Gly Ser Trp Gly Gln Gly Thr Leu Val Thr Val Ser
 100 105 110
 Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro
 115 120

<210> 128
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetically generated peptide

<400> 128
 Arg Ala Ser Gln Gly Ile Ser Ser Tyr Leu Ala
 1 5 10

<210> 129
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetically generated peptide

<400> 129
 Ala Ala Ser Thr Leu Gln Ser

1 5

<210> 130
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetically generated peptide

<400> 130
Gln Gln Tyr Asn Ser Tyr Pro Leu Thr
1 5

<210> 131
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetically generated peptide

<400> 131
Trp Tyr Thr Met Val
1 5

<210> 132
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetically generated peptide

<400> 132
Ser Ile Tyr Ser Ser Gly Gly Phe Thr Trp Tyr Ala Asp Ser Val Lys
1 5 10 15
Gly

<210> 133
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetically generated peptide

<400> 133
Asp Phe Gly Ser
1

<210> 134
<211> 116
<212> PRT
<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 134

Gln	Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ser	Leu	Tyr	Ala	Ser	Val
1															
														15	
Gly	Asp	Arg	Val	Thr	Ile	Thr	Cys	Arg	Ala	Ser	Gln	Gly	Ile	Arg	Asn
														30	
Glu	Leu	Gly	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	Gln	Arg	Leu
														45	
Ile	Tyr	Asp	Ala	Ser	Thr	Leu	Gln	Ser	Gly	Val	Pro	Ser	Arg	Phe	Ser
														60	
Gly	Gly	Gly	Ser	Arg	Thr	Glu	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Glu
														80	
Pro	His	Asp	Phe	Gly	Thr	Tyr	Tyr	Cys	Gln	Gln	Tyr	Ala	Ser	Tyr	Pro
														95	
Leu	Thr	Phe	Gly	Gly	Gly	Thr	Lys	Val	Glu	Ile	Lys	Arg	Thr	Val	Ala
														110	
Ala	Pro	Ser	Val												
															115

<210> 135

<211> 140

<212> PRT

<213> Artificial Sequence

<220>

<223> Heavy Chain amino acid sequence

<400> 135

Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1															15
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Asp	Tyr
														30	
Lys	Met	Pro	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val
														45	
Ser	Ser	Ile	Trp	Ser	Ser	Gly	Gly	Thr	Thr	Glu	Tyr	Ala	Asp	Ser	Val
														60	
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr
														80	
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
														95	
Ala	Arg	Glu	Glu	Ile	Gly	Arg	Tyr	Phe	Asp	Trp	Phe	Leu	Gly	Asn	Tyr
														110	
Tyr	Tyr	Tyr	Gly	Met	Asp	Val	Trp	Gly	Gln	Gly	Thr	Thr	Val	Thr	Val
														125	
Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser	Val	Phe	Pro				
														140	
130															

<210> 136

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 136
Arg Ala Ser Gln Gly Ile Arg Asn Glu Leu Gly
1 5 10

<210> 137
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Light Chain amino acid sequence

<400> 137
Asp Ala Ser Thr Leu Gln Ser
1 5

<210> 138
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Light Chain amino acid sequence

<400> 138
Gln Gln Tyr Ala Ser Tyr Pro Leu Thr
1 5

<210> 139
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Heavy Chain amino acid sequence

<400> 139
Asp Tyr Lys Met Pro
1 5

<210> 140
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Heavy Chain amino acid sequence

<400> 140
Ser Ile Trp Ser Ser Gly Gly Thr Thr Glu Tyr Ala Asp Ser Val Lys
1 5 10 15
Gly

<210> 141
<211> 21
<212> PRT

<213> Artificial Sequence

<220>

<223> Heavy Chain amino acid sequence

<400> 141

Glu	Glu	Ile	Gly	Arg	Tyr	Phe	Asp	Trp	Phe	Leu	Gly	Asn	Tyr	Tyr	Tyr
1				5				10					15		
Tyr	Gly	Met	Asp	Val											
				20											

<210> 142

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 142

Gln	Ser	Ala	Leu	Thr	Gln	Pro	Pro	Ser	Ala	Ser	Gly	Thr	Pro	Gly	Gln
1					5				10				15		
Arg	Val	Thr	Ile	Ser	Cys	Ser	Gly	Ser	Ser	Ser	Asn	Ile	Gly	Ser	Asn
			20				25					30			
Phe	Val	Tyr	Trp	Tyr	His	His	Leu	Pro	Gly	Thr	Ala	Pro	Lys	Leu	Leu
					35		40			45					
Ile	Tyr	Arg	Asn	Asn	Gln	Arg	Pro	Ser	Gly	Val	Pro	Asp	Arg	Phe	Ser
			50			55				60					
Gly	Ser	Lys	Ser	Gly	Thr	Ser	Ala	Ser	Leu	Ala	Ile	Ser	Gly	Leu	Arg
		65			70			75			80				
Ser	Glu	Asp	Glu	Ala	Asp	Tyr	Tyr	Cys	Ala	Ala	Trp	Asp	Asp	Ser	Leu
			85			90		95							
Ser	Gly	Val	Val	Phe	Gly	Gly	Gly	Thr	Lys	Leu	Thr	Val	Leu	Gly	Gln
			100			105			110						
Pro	Lys	Ala	Ala	Pro	Ser										
			115												

<210> 143

<211> 128

<212> PRT

<213> Artificial Sequence

<220>

<223> Heavy Chain amino acid sequence

<400> 143

Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1					5				10			15			
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Gln	Tyr
			20				25					30			
Lys	Met	Asn	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val
		35			40			45							
Ser	Tyr	Ile	Ser	Pro	Ser	Gly	Gly	Tyr	Thr	Ala	Tyr	Ala	Asp	Ser	Val
		50			55			60							
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr
		65			70		75			80					
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys

85 90 95
Ala Arg Asp Val Val Ala Gly Pro Phe Asp Tyr Trp Gly Gln Gly Thr
100 105 110
Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro
115 120 125

<210> 144
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Light Chain amino acid sequence

<400> 144
Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Phe Val Tyr
1 5 10

<210> 145
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Light Chain amino acid sequence

<400> 145
Arg Asn Asn Gln Arg Pro Ser
1 5

<210> 146
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Light Chain amino acid sequence

<400> 146
Ala Ala Trp Asp Asp Ser Leu Ser Gly Val Val
1 5 10

<210> 147
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Heavy Chain amino acid sequence

<400> 147
Gln Tyr Lys Met Asn
1 5

<210> 148
<211> 17
<212> PRT

<213> Artificial Sequence

<220>

<223> Heavy Chain amino acid sequence

<400> 148

Tyr Ile Ser Pro Ser Gly Gly Tyr Thr Ala Tyr Ala Asp Ser Val Lys
 1 5 10 15
 Gly

<210> 149

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Heavy Chain amino acid sequence

<400> 149

Asp Val Val Ala Gly Pro Phe Asp Tyr
 1 5

<210> 150

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 150

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
 1 5 10 15
 Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Asp Ile Ser Asn
 20 25 30
 Tyr Leu Ala Trp Phe Gln Gln Lys Pro Gly Arg Ala Pro Lys Ser Leu
 35 40 45
 Ile Tyr Gly Ala Ser Ser Leu Gln Thr Gly Val Pro Ser Lys Phe Ser
 50 55 60
 Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Gly Leu Gln
 65 70 75 80
 Pro Glu Asp Val Ala Thr Tyr Tyr Cys His Gln Tyr Asn His Tyr Pro
 85 90 95
 Pro Thr Phe Gly Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala
 100 105 110
 Ala Pro Ser Val
 115

<210> 151

<211> 129

<212> PRT

<213> Artificial Sequence

<220>

<223> Heavy Chain amino acid sequence

<400> 151
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Lys Tyr
 20 25 30
 Pro Met Phe Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Trp Ile Ser Pro Ser Gly Gly Lys Thr Val Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Lys Asp Cys Arg Gly Gly Cys Ser Gly Gly Ser Trp Gly Gln Gly
 100 105 110
 Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe
 115 120 125
 Pro

<210> 152
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Light Chain amino acid sequence

<400> 152
 Arg Ala Ser Gln Asp Ile Ser Asn Tyr Leu Ala
 1 5 10

<210> 153
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Light Chain amino acid sequence

<400> 153
 Gly Ala Ser Ser Leu Gln Thr
 1 5

<210> 154
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Light Chain amino acid sequence

<400> 154
 His Gln Tyr Asn His Tyr Pro Pro Thr
 1 5

<210> 155

<211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heavy Chain amino acid sequence

<400> 155
 Lys Tyr Pro Met Phe
 1 5

<210> 156
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heavy Chain amino acid sequence

<400> 156
 Trp Ile Ser Pro Ser Gly Gly Lys Thr Val Tyr Ala Asp Ser Val Lys
 1 5 10 15
 Gly

<210> 157
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heavy Chain amino acid sequence

<400> 157
 Asp Cys Arg Gly Gly Cys Ser Gly Gly Ser
 1 5 10

<210> 158
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Light Chain amino acid sequence

<400> 158
 Gln Asp Ile Gln Met Thr Gln Ser Pro Ala Thr Leu Ser Val Ser Pro
 1 5 10 15
 Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Asp Val Asn Arg
 20 25 30
 Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Arg Leu Leu
 35 40 45
 Ile Tyr Gly Ala Ser Thr Arg Ala Thr Gly Ile Pro Ala Arg Ile Ser
 50 55 60
 Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
 65 70 75 80
 Ser Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr His Asn Trp Pro

	85	90	95
Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala			
100	105	110	
Ala Pro Ser Val			
115			

<210> 159
 <211> 123
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heavy Chain amino acid sequence

<400> 159			
Glu Val Gln Leu Leu Glu Ser Gly Gly Leu Val Gln Pro Gly Gly			
1	5	10	15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Tyr			
20	25	30	
Ser Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val			
35	40	45	
Ser Tyr Ile Ser Pro Ser Gly Gly Met Thr Lys Tyr Ala Asp Ser Val			
50	55	60	
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr			
65	70	75	80
Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys			
85	90	95	
Ala Asn Thr Leu Gly Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser			
100	105	110	
Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro			
115	120		

<210> 160
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Light Chain amino acid sequence

<400> 160			
Arg Ala Ser Gln Asp Val Asn Arg Tyr Leu Ala			
1	5	10	

<210> 161
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Light Chain amino acid sequence

<400> 161			
Gly Ala Ser Thr Arg Ala Thr			
1	5		

<210> 162

<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Light Chain amino acid sequence

<400> 162
Gln Gln Tyr His Asn Trp Pro Leu Thr
1 5

<210> 163
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Heavy Chain amino acid sequence

<400> 163
Arg Tyr Ser Met Asn
1 5

<210> 164
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Heavy Chain amino acid sequence

<400> 164
Tyr Ile Ser Pro Ser Gly Gly Met Thr Lys Tyr Ala Asp Ser Val Lys
1 5 10 15
Gly

<210> 165
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Heavy Chain amino acid sequence

<400> 165
Thr Leu Gly Tyr
1

<210> 166
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Light Chain amino acid sequence

<400> 166
 Gln Ser Ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln
 1 5 10 15
 Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Tyr Tyr
 20 25 30
 Asp Tyr Val Ser Trp Tyr Gln His His Pro Gly Lys Ala Pro Lys Leu
 35 40 45
 Ile Ile Tyr Asp Val Thr Ser Arg Pro Ser Gly Val Ser Ser His Phe
 50 55 60
 Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu
 65 70 75 80
 Gln Ala Asp Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Ser Gly
 85 90 95
 Ser Thr Arg Tyr Val Phe Gly Pro Gly Thr Lys Val Thr Val Leu Gly
 100 105 110
 Gln Pro Lys Ala Asn Pro Thr
 115

<210> 167

<211> 131

<212> PRT

<213> Artificial Sequence

<220>

<223> Heavy Chain amino acid sequence

<400> 167
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asp Tyr
 20 25 30
 Tyr Met Arg Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Arg Ile Tyr Pro Ser Gly Gly His Thr Trp Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg His Arg Ala Gly Ser Ser Gly Trp Tyr Ser Asp Tyr Trp Gly
 100 105 110
 Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser
 115 120 125
 Val Phe Pro
 130

<210> 168

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 168

Thr Gly Thr Ser Ser Asp Val Gly Tyr Tyr Asp Tyr Val Ser
 1 5 10

<210> 169
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Light Chain amino acid sequence

<400> 169
Asp Val Thr Ser Arg Pro Ser
1 5

<210> 170
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Light Chain amino acid sequence

<400> 170
Ser Ser Tyr Thr Ser Gly Ser Thr Arg Tyr Val
1 5 10

<210> 171
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Heavy Chain amino acid sequence

<400> 171
Asp Tyr Tyr Met Arg
1 5

<210> 172
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Heavy Chain amino acid sequence

<400> 172
Arg Ile Tyr Pro Ser Gly Gly His Thr Trp Tyr Ala Asp Ser Val Lys
1 5 10 15
Gly

<210> 173
<211> 12
<212> PRT
<213> Artificial Sequence

<220>

<223> Heavy Chain amino acid sequence

<400> 173

His Arg Ala Gly Ser Ser Gly Trp Tyr Ser Asp Tyr
 1 5 10

<210> 174

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 174

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
 1 5 10 15
 Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Asp Ile Arg Asn
 20 25 30
 Tyr Leu Ala Trp Phe Gln Gln Lys Pro Gly Glu Ala Pro Lys Ser Leu
 35 40 45
 Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Ser Ser Asn Phe Ser
 50 55 60
 Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
 65 70 75 80
 Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr His Arg Tyr Pro
 85 90 95
 Arg Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg Thr Val Ala
 100 105 110
 Ala Pro Ser Val
 115

<210> 175

<211> 131

<212> PRT

<213> Artificial Sequence

<220>

<223> Heavy Chain amino acid sequence

<400> 175

Glu Val Gln Leu Leu Glu Ser Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ala Tyr
 20 25 30
 Asn Met Pro Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Tyr Ile Ser Ser Ser Gly Thr Gly Tyr Ala Asp Ser Val Lys Gly
 50 55 60
 Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln
 65 70 75 80
 Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
 85 90 95
 Glu Leu Gly Ser Gly Ser Tyr Tyr Pro Gly Tyr Phe Gln His Trp Gly
 100 105 110
 Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser
 115 120 125

Val Phe Pro
130

<210> 176
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Light Chain amino acid sequence

<400> 176
Arg Ala Ser Gln Asp Ile Arg Asn Tyr Leu Ala
1 5 10

<210> 177
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Light Chain amino acid sequence

<400> 177
Ala Ala Ser Ser Leu Gln Ser
1 5

<210> 178
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Light Chain amino acid sequence

<400> 178
Gln Gln Tyr His Arg Tyr Pro Arg Thr
1 5

<210> 179
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Heavy Chain amino acid sequence

<400> 179
Ala Tyr Asn Met Pro
1 5

<210> 180
<211> 16
<212> PRT
<213> Artificial Sequence

<220>

<223> Heavy Chain amino acid sequence

<400> 180
 Tyr Ile Ser Ser Ser Gly Thr Gly Tyr Ala Asp Ser Val Lys Gly Arg
 1 5 10 15

<210> 181
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heavy Chain amino acid sequence

<400> 181
 Glu Leu Gly Ser Gly Ser Tyr Tyr Pro Gly Tyr Phe Gln His
 1 5 10

<210> 182
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Light Chain amino acid sequence

<400> 182
 Gln Asp Ile Gln Met Thr Gln Ser Pro Ala Thr Leu Tyr Val Ser Pro
 1 5 10 15
 Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Arg
 20 25 30
 Asn Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
 35 40 45
 Ile Tyr Gly Ala Ser Thr Arg Ala Thr Gly Ile Pro Ala Arg Phe Ser
 50 55 60
 Gly Ser Gly Ser Arg Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
 65 70 75 80
 Ser Glu Asp Phe Ala Val Tyr His Cys Gln Gln Tyr Asn Ser Arg Pro
 85 90 95
 Leu Thr Phe Gly Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala
 100 105 110
 Ala Pro Ser Val
 115

<210> 183
 <211> 123
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heavy Chain amino acid sequence

<400> 183
 Glu Val Gln Leu Leu Glu Ser Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Trp Tyr
 20 25 30

Phe Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45
Ser Ser Ile Tyr Pro Ser Gly Gly Tyr Thr Met Tyr Ala Asp Ser Val
50 55 60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Lys Thr Leu Tyr
65 70 75 80
Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Ala Ser Asp Phe Gly Ser Trp Gly Gln Gly Thr Leu Val Thr Val Ser
100 105 110
Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro
115 120

<210> 184

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 184

Arg Ala Ser Gln Ser Val Ser Arg Asn Leu Ala
1 5 10

<210> 185

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 185

Gly Ala Ser Thr Arg Ala Thr
1 5

<210> 186

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 186

Gln Gln Tyr Asn Ser Arg Pro Leu Thr
1 5

<210> 187

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Heavy Chain amino acid sequence

<400> 187
 Trp Tyr Phe Met Asn
 1 5

<210> 188
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heavy Chain amino acid sequence

<400> 188
 Ser Ile Tyr Pro Ser Gly Gly Tyr Thr Met Tyr Ala Asp Ser Val Lys
 1 5 10 15
 Gly

<210> 189
 <211> 4
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heavy Chain amino acid sequence

<400> 189
 Asp Phe Gly Ser
 1

<210> 190
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Light Chain amino acid sequence

<400> 190
 Gln Ser Ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln
 1 5 10 15
 Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Tyr Tyr
 20 25 30
 Asp Tyr Val Ser Trp Tyr Gln His His Pro Gly Lys Ala Pro Lys Leu
 35 40 45
 Ile Ile Tyr Asp Val Thr Ser Arg Pro Ser Gly Val Ser Ser His Phe
 50 55 60
 Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu
 65 70 75 80
 Gln Ala Asp Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Ser Gly
 85 90 95
 Ser Thr Arg Tyr Val Phe Gly Pro Gly Thr Lys Val Thr Val Leu Gly
 100 105 110
 Gln Pro Lys Ala Asn Pro Thr
 115

<210> 191

<211> 131
<212> PRT
<213> Artificial Sequence

<220>
<223> Heavy Chain amino acid sequence

<400> 191
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asp Tyr
20 25 30
Tyr Met Arg Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45
Ser Arg Ile Tyr Pro Ser Gly Gly His Thr Trp Tyr Ala Asp Ser Val
50 55 60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80
Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Ala Arg His Arg Ala Gly Ser Ser Gly Trp Tyr Ser Asp Tyr Trp Gly
100 105 110
Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser
115 120 125
Val Phe Pro
130

<210> 192
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Light Chain amino acid sequence

<400> 192
Thr Gly Thr Ser Ser Asp Val Gly Tyr Tyr Asp Tyr Val Ser
1 5 10

<210> 193
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Light Chain amino acid sequence

<400> 193
Asp Val Thr Ser Arg Pro Ser
1 5

<210> 194
<211> 11
<212> PRT
<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 194

Ser Ser Tyr Thr Ser Gly Ser Thr Arg Tyr Val
1 5 10

<210> 195

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Heavy Chain amino acid sequence

<400> 195

Asp Tyr Tyr Met Arg
1 5

<210> 196

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Heavy Chain amino acid sequence

<400> 196

Arg Ile Tyr Pro Ser Gly Gly His Thr Trp Tyr Ala Asp Ser Val Lys
1 5 10 15
Gly

<210> 197

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Heavy Chain amino acid sequence

<400> 197

His Arg Ala Gly Ser Ser Gly Trp Tyr Ser Asp Tyr
1 5 10

<210> 198

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 198

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
1 5 10 15
Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
 35 40 45
 Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
 50 55 60
 Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
 65 70 75 80
 Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Arg
 85 90 95
 Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala
 100 105 110
 Ala Pro Ser Val
 115

<210> 199
 <211> 137
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heavy Chain amino acid sequence

<400> 199
 Glu Val Gln Leu Leu Glu Ser Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Thr Tyr
 20 25 30
 Phe Met Arg Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Tyr Ile Val Pro Ser Gly Gly Asn Thr Leu Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Glu Glu Trp Asp Val Leu Leu Trp Phe Gly Glu Leu Ser Ala
 100 105 110
 Ala Phe Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Ala
 115 120 125
 Ser Thr Lys Gly Pro Ser Val Phe Pro
 130 135

<210> 200
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Light Chain amino acid sequence

<400> 200
 Arg Ala Ser Gln Ser Ile Ser Ser Tyr Leu Asn
 1 5 10

<210> 201
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
<223> Light Chain amino acid sequence

<400> 201
Ala Ala Ser Ser Leu Gln Ser
1 5

<210> 202
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Light Chain amino acid sequence

<400> 202
Gln Gln Ser Tyr Ser Thr Arg Trp Thr
1 5

<210> 203
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Heavy Chain amino acid sequence

<400> 203
Thr Tyr Phe Met Arg
1 5

<210> 204
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Heavy Chain amino acid sequence

<400> 204
Tyr Ile Val Pro Ser Gly Gly Asn Thr Leu Tyr Ala Asp Ser Val Lys
1 5 10 15
Gly

<210> 205
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Heavy Chain amino acid sequence

<400> 205
Glu Glu Trp Asp Val Leu Leu Trp Phe Gly Glu Leu Ser Ala Ala Phe
1 5 10 15

Asp Ile

<210> 206
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
<223> Light Chain amino acid sequence

<400> 206
 Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
 1 5 10 15
 Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Arg His
 20 25 30
 Tyr Leu Gly Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Arg Leu
 35 40 45
 Ile Tyr Ala Ala Ser Ser Leu Gln Phe Gly Val Pro Ala Arg Phe Ser
 50 55 60
 Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
 65 70 75 80
 Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln His Asn Ser Phe Pro
 85 90 95
 Pro Ala Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala
 100 105 110
 Ala Pro Ser Val
 115

<210> 207
<211> 132
<212> PRT
<213> Artificial Sequence

<220>
<223> Heavy Chain amino acid sequence

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<400> 207
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1           5           10           15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Pro Tyr
 20          25          30
Asp Met Trp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35          40          45
Ser Tyr Ile Ser Ser Ser Gly Gly Lys Thr Met Tyr Ala Asp Ser Val
 50          55          60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65          70          75          80
Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85          90          95
Ala Arg Leu Gly Gly Asn Ser His Tyr Tyr Tyr Gly Met Asp Val Trp
100          105         110
Gly Gln Gly Thr Thr Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro
115          120         125
Ser Val Phe Pro
130

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<210> 208
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Light Chain amino acid sequence

<400> 208
Arg Ala Ser Gln Gly Ile Arg His Tyr Leu Gly
1 5 10

<210> 209
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Light Chain amino acid sequence

<400> 209
Ala Ala Ser Ser Leu Gln Phe
1 5

<210> 210
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Light Chain amino acid sequence

<400> 210
Leu Gln His Asn Ser Phe Pro Pro Ala
1 5

<210> 211
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Heavy Chain amino acid sequence

<400> 211
Pro Tyr Asp Met Trp
1 5

<210> 212
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Heavy Chain amino acid sequence

<400> 212

Tyr Ile Ser Ser Ser Gly Gly Lys Thr Met Tyr Ala Asp Ser Val Lys
 1 5 10 15
 Gly

<210> 213
 <211> 13
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heavy Chain amino acid sequence

<400> 213
 Leu Gly Gly Asn Ser His Tyr Tyr Tyr Gly Met Asp Val
 1 5 10

<210> 214
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Light Chain amino acid sequence

<400> 214
 Gln Ser Glu Leu Thr Gln Pro Pro Ser Ala Ser Ala Thr Pro Gly Gln
 1 5 10 15
 Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Arg Asn
 20 25 30
 Leu Val Tyr Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
 35 40 45
 Ile Tyr Ser Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
 50 55 60
 Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Arg
 65 70 75 80
 Ser Glu Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu
 85 90 95
 Ser Gly Trp Val Phe Gly Gly Thr Arg Leu Thr Val Leu Gly Gln
 100 105 110
 Pro Lys Ala Ala Pro Ser
 115

<210> 215
 <211> 131
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heavy Chain amino acid sequence

<400> 215
 Glu Val Gln Leu Leu Glu Ser Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Trp Tyr
 20 25 30
 His Met Arg Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val

35	40	45
Ser Ile Tyr Pro Ser Gly Gly Val Thr Ser Tyr Ala Asp Ser Val Lys		
50	55	60
Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu		
65	70	75
Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala		
85	90	95
Arg Glu Thr Ser Gly Trp Tyr Arg Asp Arg Trp Phe Asp Pro Trp Gly		
100	105	110
Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser		
115	120	125
Val Phe Pro		
130		

<210> 216

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 216

Ser Gly Ser Ser Ser Asn Ile Gly Arg Asn Leu Val Tyr		
1	5	10

<210> 217

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 217

Ser Asn Asn Gln Arg Pro Ser		
1	5	

<210> 218

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 218

Ala Ala Trp Asp Asp Ser Leu Ser Gly Trp Val		
1	5	10

<210> 219

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Heavy Chain amino acid sequence

<400> 219
 Trp Tyr His Met Arg
 1 5

<210> 220
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heavy Chain amino acid sequence

<400> 220
 Ile Tyr Pro Ser Gly Gly Val Thr Asp Tyr Ala Asp Ser Val Lys Gly
 1 5 10 15

<210> 221
 <211> 13
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heavy Chain amino acid sequence

<400> 221
 Glu Thr Ser Gly Trp Tyr Arg Asp Arg Trp Phe Asp Pro
 1 5 10

<210> 222
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Light Chain amino acid sequence

<400> 222
 Gln Ser Val Leu Thr Gln Thr Ala Ser Val Ser Gly Ser Pro Gly Gln
 1 5 10 15
 Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Ile Gly Asp Tyr
 20 25 30
 Glu Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Val
 35 40 45
 Ile Leu Tyr Glu Val Ser Asn Arg Pro Ser Gly Val Pro Asp Arg Phe
 50 55 60
 Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu
 65 70 75 80
 Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gly Ser Tyr Arg Lys Ser
 85 90 95
 Ser Thr Pro Tyr Val Phe Gly Thr Gly Thr Lys Val Ser Val Leu Gly
 100 105 110
 Gln Pro Lys Ala Asn Pro Thr
 115

<210> 223
 <211> 138

<212> PRT
 <213> Artificial Sequence

<220>
 <223> Heavy Chain amino acid sequence

<400> 223

Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1					5				10				15		
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Tyr	Tyr
					20				25				30		
His	Met	Trp	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val
					35				40				45		
Ser	Val	Ile	Val	Pro	Ser	Gly	Gly	Thr	Gln	Tyr	Ala	Asp	Ser	Val	
					50				55				60		
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr
65					70				75				80		
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
					85				90				95		
Ala	Arg	Asp	Gly	His	Ser	Ser	Ser	Trp	Tyr	Gly	Gly	Ala	His	Tyr	
					100				105				110		
Tyr	Gly	Met	Asp	Val	Trp	Gly	Gln	Gly	Thr	Thr	Val	Thr	Val	Ser	Ser
					115				120				125		
Ala	Ser	Thr	Lys	Gly	Pro	Ser	Val	Phe	Pro						
					130				135						

<210> 224
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Light Chain amino acid sequence

<400> 224

Thr	Gly	Thr	Ser	Ser	Asp	Ile	Gly	Asp	Tyr	Glu	Tyr	Val	Ser
1					5				10				

<210> 225
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Light Chain amino acid sequence

<400> 225

Tyr	Glu	Val	Ser	Asn	Arg	Pro	Ser
1					5		

<210> 226
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Light Chain amino acid sequence

<400> 226
Gly Ser Tyr Arg Lys Ser Ser Thr Pro Tyr Val
1 5 10

<210> 227
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Heavy Chain amino acid sequence

<400> 227
Tyr Tyr His Met Trp
1 5

<210> 228
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Heavy Chain amino acid sequence

<400> 228
Val Ile Val Pro Ser Gly Gly Gly Thr Gln Tyr Ala Asp Ser Val Lys
1 5 10 15
Gly

<210> 229
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Heavy Chain amino acid sequence

<400> 229
Asp Gly His Ser Ser Ser Trp Tyr Gly Gly Gly Ala His Tyr Tyr Gly
1 5 10 15
Met Asp Val

<210> 230
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
<223> Light Chain amino acid sequence

<400> 230
Gln Asp Ile Gln Met Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro
1 5 10 15
Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser

20	25	30
Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu		
35	40	45
Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser		
50	55	60
Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Gly Arg Leu Glu		
65	70	75
Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Ser Ser Pro		
85	90	95
Val Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys Arg Thr Val Ala		
100	105	110
Ala Pro Ser Val		
115		

<210> 231

<211> 123

<212> PRT

<213> Artificial Sequence

<220>

<223> Heavy Chain amino acid sequence

<400> 231

Glu Val Gln Leu Leu Glu Ser Gly Gly	1	5	10	15
Gly Leu Val Gln Pro Gly Gly				
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr				
20	25	30		
Arg Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly				
35	40	45		
Gly Leu Glu Trp Val Tyr Ala Asp Ser Val				
Ser Gly Ile Val Pro Ser Gly Gly Lys Thr Phe Tyr				
50	55	60		
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr				
65	70	75	80	
Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys				
85	90	95		
Ala Ser Asp Phe Gly Ser Trp Gly Gln Gly Thr Leu Val Thr Val Ser				
100	105	110		
Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro				
115	120			

<210> 232

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 232

Arg Ala Ser Gln Ser Val Ser Ser Tyr Leu Ala	1	5	10
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<210> 233

<211> 7

<212> PRT

<213> Artificial Sequence

<220>
<223> Light Chain amino acid sequence

<400> 233
Gly Ala Ser Ser Arg Ala Thr
1 5

<210> 234
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Light Chain amino acid sequence

<400> 234
Gln Gln Tyr Ser Ser Ser Pro Val Thr
1 5

<210> 235
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Heavy Chain amino acid sequence

<400> 235
Ser Tyr Arg Met Asn
1 5

<210> 236
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Heavy Chain amino acid sequence

<400> 236
Gly Ile Val Pro Ser Gly Gly Lys Thr Phe Tyr Ala Asp Ser Val Lys
1 5 10 15
Gly

<210> 237
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Heavy Chain amino acid sequence

<400> 237
Asp Phe Gly Ser
1

<210> 238
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Light Chain amino acid sequence

<400> 238
 Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
 1 5 10 15
 Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Arg Ile Ser Ser
 20 25 30
 Tyr Val Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
 35 40 45
 Ile Tyr Ser Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
 50 55 60
 Gly Ser Val Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
 65 70 75 80
 Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Arg Thr Pro
 85 90 95
 Pro Phe Phe Gly Gln Gly Thr Lys Leu Glu Val Lys Arg Thr Val Ala
 100 105 110
 Ala Pro Ser Val
 115

<210> 239
 <211> 129
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heavy Chain amino acid sequence

<400> 239
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Leu Tyr
 20 25 30
 Gln Met Leu Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Gly Ile Val Ser Ser Gly Gly Leu Thr Gly Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg His Asn Arg Ala Ile Gly Thr Phe Asp Tyr Trp Gly Gln Gly
 100 105 110
 Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe
 115 120 125
 Pro

<210> 240
 <211> 11
 <212> PRT

<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 240

Arg Ala Ser Gln Arg Ile Ser Ser Tyr Val Asn
1 5 10

<210> 241

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 241

Ser Ala Ser Ser Leu Gln Ser
1 5

<210> 242

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 242

Gln Gln Ser Tyr Arg Thr Pro Pro Phe
1 5

<210> 243

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Heavy Chain amino acid sequence

<400> 243

Leu Tyr Gln Met Leu
1 5

<210> 244

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Heavy Chain amino acid sequence

<400> 244

Gly Ile Val Ser Ser Gly Gly Leu Thr Gly Tyr Ala Asp Ser Val Lys
1 5 10 15
Gly

<210> 245
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heavy Chain amino acid sequence

<400> 245
 His Asn Arg Ala Ile Gly Thr Phe Asp Tyr
 1 5 10

<210> 246
 <211> 115
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Light Chain amino acid sequence

<400> 246
 Gln Asp Ile Gln Met Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro
 1 5 10 15
 Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Arg
 20 25 30
 Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
 35 40 45
 Ile Tyr Gly Ala Ser Thr Arg Ala Thr Gly Ile Pro Ala Arg Phe Ser
 50 55 60
 Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
 65 70 75 80
 Ser Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Asn Asn Trp Pro
 85 90 95
 Ser Phe Gly Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala Ala
 100 105 110
 Pro Ser Val
 115

<210> 247
 <211> 123
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heavy Chain amino acid sequence

<400> 247
 Glu Val Gln Leu Leu Glu Ser Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asn Tyr
 20 25 30
 Ser Met Asp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Trp Ile Ser Pro Ser Gly Gly Leu Thr Thr Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Ser Asp Phe Gly Ser Trp Gly Gln Gly Thr Leu Val Thr Val Ser
 100 105 110
 Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro
 115 120

<210> 248
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Light Chain amino acid sequence

<400> 248
 Arg Ala Ser Gln Ser Val Ser Arg Tyr Leu Ala
 1 5 10

<210> 249
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Light Chain amino acid sequence

<400> 249
 Gly Ala Ser Thr Arg Ala Thr
 1 5

<210> 250
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Light Chain amino acid sequence

<400> 250
 Gln Gln Tyr Asn Asn Trp Pro Ser
 1 5

<210> 251
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heavy Chain amino acid sequence

<400> 251
 Asn Tyr Ser Met Asp
 1 5

<210> 252
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heavy Chain amino acid sequence

<400> 252
 Trp Ile Ser Pro Ser Gly Gly Leu Thr Thr Tyr Ala Asp Ser Val Lys
 1 5 10 15
 Gly

<210> 253
 <211> 4
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heavy Chain amino acid sequence

<400> 253
 Asp Phe Gly Ser
 1

<210> 254
 <211> 124
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Light Chain amino acid sequence

<400> 254
 Gln Ser Val Leu Thr Gln Pro Pro Tyr Ala Ser Ala Ser Leu Gly Ala
 1 5 10 15
 Ser Val Thr Leu Thr Cys Thr Leu Ser Ser Gly Tyr Ser Asn Tyr Lys
 20 25 30
 Val Asp Trp Tyr Gln Gln Arg Pro Gly Lys Gly Pro Gln Phe Val Met
 35 40 45
 Arg Val Gly Ser Gly Gly Ile Val Gly Ser Lys Gly Asp Gly Ile Pro
 50 55 60
 Asp Arg Phe Ser Val Leu Gly Ser Gly Leu Tyr Arg Tyr Leu Thr Ile
 65 70 75 80
 Lys Asn Ile Gln Glu Glu Asp Glu Ser Asp Tyr Tyr Cys Gly Ala Asp
 85 90 95
 His Gly Arg Gly Gly Thr Phe Val Trp Val Phe Gly Gly Thr Lys
 100 105 110
 Leu Thr Val Leu Gly Gln Pro Lys Ala Ala Pro Ser
 115 120

<210> 255
 <211> 136
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Heavy Chain amino acid sequence

<400> 255

Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1															
														15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Tyr	Lys
														30	
Met	Met	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val	Ser
														45	
Tyr	Ile	Ser	Ser	Ser	Gly	Gly	Ile	Thr	Thr	Tyr	Ala	Asp	Ser	Val	Lys
														60	
Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr	Leu
														80	
Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ala
														95	
Arg	Asp	Pro	Thr	Tyr	Asp	Phe	Trp	Ser	Gly	Tyr	Tyr	Tyr	Tyr	Tyr	Tyr
														100	
Met	Asp	Val	Trp	Gly	Lys	Gly	Thr	Thr	Val	Thr	Val	Ser	Ser	Ala	Ser
														115	
Thr	Lys	Gly	Pro	Ser	Val	Phe	Pro								
														130	
															135

<210> 256

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 256

Thr	Leu	Ser	Ser	Gly	Tyr	Ser	Asn	Tyr	Lys	Val	Asp
1											
											10

<210> 257

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 257

Arg	Val	Gly	Ser	Gly	Gly	Ile	Val	Gly	Ser	Lys	Gly	Asp
1												
												10

<210> 258

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 258

Gly Ala Asp His Gly Arg Gly Gly Thr Phe Val Trp Val

1	5	10	
---	---	----	--

<210> 259
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heavy Chain amino acid sequence

<400> 259
 Ser Tyr Lys Met Met
 1 5

<210> 260
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heavy Chain amino acid sequence

<400> 260
 Tyr Ile Ser Ser Ser Gly Gly Ile Thr Thr Tyr Ala Asp Ser Val Lys
 1 5 10 15
 Gly

<210> 261
 <211> 19
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heavy Chain amino acid sequence

<400> 261
 Arg Asp Pro Thr Tyr Asp Phe Trp Ser Gly Tyr Tyr Tyr Tyr Tyr
 1 5 10 15
 Met Asp Val

<210> 262
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Light Chain amino acid sequence

<400> 262
 Gln Ser Ala Leu Thr Gln Pro Ser Ser Ala Ser Gly Thr Pro Gly Gln
 1 5 10 15
 Arg Val Ser Ile Ser Cys Ser Gly Ser Ser Tyr Asn Ile Gly Val Tyr
 20 25 30
 Asp Val Tyr Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
 35 40 45

Ile Tyr Thr Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
 50 55 60
 Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln
 65 70 75 80
 Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu
 85 90 95
 Ser Gly Trp Val Phe Gly Gly Thr Lys Val Thr Val Leu Gly Gln
 100 105 110
 Pro Lys Ala Ala Pro Ser
 115

<210> 263
 <211> 137
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heavy Chain amino acid sequence

<400> 263
 Glu Val Gln Leu Leu Glu Ser Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Gln Tyr
 20 25 30
 Asn Met Pro Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Ser Ile Val Pro Ser Gly Gly Phe Thr Ala Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Val Asp Cys Ser Gly Gly Ser Cys Tyr Arg Gly Pro Gln Asn
 100 105 110
 Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala
 115 120 125
 Ser Thr Lys Gly Pro Ser Val Phe Pro
 130 135

<210> 264
 <211> 13
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Light Chain amino acid sequence

<400> 264
 Ser Gly Ser Ser Tyr Asn Ile Gly Val Tyr Asp Val Tyr
 1 5 10

<210> 265
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 265

Thr Asn Asn Gln Arg Pro Ser
1 5

<210> 266

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 266

Ala Ala Trp Asp Asp Ser Leu Ser Gly Trp Val
1 5 10

<210> 267

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 267

Gln Tyr Asn Met Pro
1 5

<210> 268

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Heavy Chain amino acid sequence

<400> 268

Ser Ile Val Pro Ser Gly Gly Phe Thr Ala Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 269

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 269

Val Asp Cys Ser Gly Gly Ser Cys Tyr Arg Gly Pro Gln Asn Tyr Phe
1 5 10 15

Asp Tyr

<210> 270
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Light Chain amino acid sequence

<400> 270
 Gln Tyr Glu Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln
 1 5 10 15
 Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr
 20 25 30
 Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu
 35 40 45
 Met Ile Tyr Glu Val Ser Asn Arg Pro Ser Gly Val Ser Asn Arg Phe
 50 55 60
 Ser Gly Ser Lys Ser Asp Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu
 65 70 75 80
 Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gly Ser Tyr Arg Lys Ser
 85 90 95
 Ser Thr Pro Tyr Val Phe Gly Thr Gly Thr Lys Val Ser Val Leu Gly
 100 105 110
 Gln Pro Lys Ala Asn Pro Thr
 115

<210> 271
 <211> 135
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heavy Chain amino acid sequence

<400> 271
 Glu Val Gln Leu Leu Glu Ser Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Gln Tyr
 20 25 30
 Met Met Thr Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Tyr Ile Gly Ser Ser Gly Gly Gln Thr Lys Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Asp Pro Gly Val Ala Val Ala Gly Tyr Tyr Tyr Gly Met
 100 105 110
 Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser Ala Ser Thr
 115 120 125
 Lys Gly Pro Ser Val Phe Pro
 130 135

<210> 272
 <211> 14

<212> PRT
<213> Artificial Sequence

<220>
<223> Light Chain amino acid sequence

<400> 272
Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser
1 5 10

<210> 273
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Light Chain amino acid sequence

<400> 273
Glu Val Ser Asn Arg Pro Ser
1 5

<210> 274
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Light Chain amino acid sequence

<400> 274
Gly Ser Tyr Arg Lys Ser Ser Thr Pro Tyr Val
1 5 10

<210> 275
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Heavy Chain amino acid sequence

<400> 275
Gln Tyr Met Met Thr
1 5

<210> 276
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Heavy Chain amino acid sequence

<400> 276
Tyr Ile Gly Ser Ser Gly Gly Gln Thr Lys Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 277
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heavy Chain amino acid sequence

<400> 277
 Asp Pro Gly Val Ala Val Ala Gly Tyr Tyr Tyr Gly Met Asp Val
 1 5 10 15

<210> 278
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Light Chain amino acid sequence

<400> 278
 Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Val Ser Ala Ser Val
 1 5 10 15
 Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Arg Gly Ile Ser Arg
 20 25 30
 Trp Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
 35 40 45
 Ile Tyr Gly Ala Ser Thr Leu Gln Lys Gly Val Pro Ser Arg Phe Thr
 50 55 60
 Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Thr Ser Leu Gln
 65 70 75 80
 Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Gly Asn Ser Phe Pro
 85 90 95
 Phe Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys Arg Thr Val Ala
 100 105 110
 Ala Pro Ser Val
 115

<210> 279
 <211> 132
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heavy Chain amino acid sequence

<400> 279
 Glu Val Gln Leu Leu Glu Ser Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Gly Tyr
 20 25 30
 Trp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Val Ile Arg Pro Ser Gly Gly Lys Thr Gly Tyr Ala Asp Ser Val

50	55	60		
Lys	Gly	Arg Phe Thr Ile Ser Arg Asp Asn Phe Lys Asn Thr Leu Tyr		
65	70	75	80	
Leu	Gln	Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys		
		85	90	95
Ala	Arg	Val Arg Ala Pro Gly Tyr Tyr Tyr Gly Met Asp Val Trp		
		100	105	110
Gly	Gln	Gly Thr Thr Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro		
		115	120	125
Ser	Val	Phe Pro		
		130		

<210> 280

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 280

Arg	Ala	Ser	Arg	Gly	Ile	Ser	Arg	Trp	Leu	Ala
1										
					5					10

<210> 281

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 281

Gly	Ala	Ser	Thr	Leu	Gln	Lys
1						
					5	

<210> 282

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 282

Gln	Gln	Gly	Asn	Ser	Phe	Pro	Phe	Thr
1								
					5			

<210> 283

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Heavy Chain amino acid sequence

<400> 283

Gly Tyr Trp Met Ser
 1 5

<210> 284

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Heavy Chain amino acid sequence

<400> 284

Val Ile Arg Pro Ser Gly Gly Lys Thr Gly Tyr Ala Asp Ser Val Lys
 1 5 10 15

Gly

<210> 285

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Heavy Chain amino acid sequence

<400> 285

Val Arg Ala Pro Gly Tyr Tyr Tyr Gly Met Asp Val
 1 5 10

<210> 286

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 286

Gln Ser Val Leu Thr Gln Thr Ala Ser Val Ser Gly Ser Pro Gly Gln
 1 5 10 15

Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Ile Gly Asp Tyr
 20 25 30

Glu Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Val
 35 40 45

Ile Leu Tyr Glu Val Ser Asn Arg Pro Ser Gly Val Pro Asp Arg Phe
 50 55 60

Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu
 65 70 75 80

Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gly Ser Tyr Arg Lys Ser
 85 90 95

Ser Thr Pro Tyr Val Phe Gly Thr Gly Thr Lys Val Ser Val Leu Gly
 100 105 110

Gln Pro Lys Ala Asn Pro Thr
 115

<210> 287

<211> 138

<212> PRT
 <213> Artificial Sequence

<220>
 <223> Light Chain amino acid sequence

<400> 287
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Tyr Tyr
 20 25 30
 His Met Trp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Val Ile Val Pro Ser Gly Gly Thr Gln Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Asp Gly His Ser Ser Trp Tyr Gly Gly Ala His Tyr
 100 105 110
 Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser
 115 120 125
 Ala Ser Thr Lys Gly Pro Ser Val Phe Pro
 130 135

<210> 288
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Light Chain amino acid sequence

<400> 288
 Thr Gly Thr Ser Ser Asp Ile Gly Asp Tyr Glu Tyr Val Ser
 1 5 10

<210> 289
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Light Chain amino acid sequence

<400> 289
 Tyr Glu Val Ser Asn Arg Pro Ser
 1 5

<210> 290
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Light Chain amino acid sequence

<400> 290
 Gly Ser Tyr Arg Lys Ser Ser Thr Pro Tyr Val
 1 5 10

<210> 291
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heavy Chain amino acid sequence

<400> 291
 Tyr Tyr His Met Trp
 1 5

<210> 292
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heavy Chain amino acid sequence

<400> 292
 Val Ile Val Pro Ser Gly Gly Gly Thr Gln Tyr Ala Asp Ser Val Lys
 1 5 10 15
 Gly

<210> 293
 <211> 19
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heavy Chain amino acid sequence

<400> 293
 Asp Gly His Ser Ser Ser Trp Tyr Gly Gly Gly Ala His Tyr Tyr Gly
 1 5 10 15
 Met Asp Val

<210> 294
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Light Chain amino acid sequence

<400> 294
 Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
 1 5 10 15
 Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Arg Asn

20	25	30
Asp Leu Gly Trp Phe Gln Gln	Lys Pro Gly Lys Ala Pro Arg Arg	Leu
35 ,	40 45	
Ile Trp Gly Ala Ser Thr Leu Gln Ser Gly Val	Pro Ser Arg Phe Ser	
50	55 60	
Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr	Ile Ser Ser Leu Gln	
65	70 75	80
Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln	Asp Tyr Asn Tyr Pro	
85	90 95	
Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile	Lys Arg Thr Val Ala	
100	105 110	
Ala Pro Ser Val		
115		

<210> 295

<211> 132

<212> PRT

<213> Artificial Sequence

<220>

<223> Heavy Chain amino acid sequence

<400> 295

Glu Val Gln Leu Leu Glu Ser Gly Gly	Gly Leu Val Gln Pro Gly Gly	
1 5 10	15	
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly	Phe Thr Phe Ser Phe Tyr	
20 25 30		
Gly Met Pro Trp Val Arg Gln Ala Pro Gly	Lys Gly Leu Glu Trp Val	
35 40 45		
Ser Gly Ile Tyr Pro Ser Gly Gly Val Thr	Arg Tyr Ala Asp Ser Val	
50 55 60		
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn	Ser Lys Asn Thr Leu Tyr	
65 70 75	80	
Leu Gln Met Asn Ser Leu Arg Ala Glu Asp	Thr Ala Val Tyr Tyr Cys	
85 90 95		
Ala Lys Thr Tyr Ser Ser Trp Tyr Gly Trp	Tyr Phe Asp Tyr Trp	
100 105 110		
Gly Gln Gly Thr Leu Val Thr Val Ser Ser	Ala Ser Thr Lys Gly Pro	
115 120 125		
Ser Val Phe Pro		
130		

<210> 296

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 296

Arg Ala Ser Gln Gly Ile Arg Asn Asp	Leu Gly	
1 5	10	

<210> 297

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 297

Gly Ala Ser Thr Leu Gln Ser

1

5

<210> 298

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 298

Leu Gln Asp Tyr Asn Tyr Pro Tyr Thr

1

5

<210> 299

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Heavy Chain amino acid sequence

<400> 299

Phe Tyr Gly Met Pro

1

5

<210> 300

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Heavy Chain amino acid sequence

<400> 300

Gly Ile Tyr Pro Ser Gly Gly Val Thr Arg Tyr Ala Asp Ser Val Lys

1

5

10

15

Gly

<210> 301

<211> 13

<212> PRT

<213> Unknown

<220>

<223> Heavy Chain amino acid sequence

<400> 301

Thr Tyr Ser Ser Ser Trp Tyr Gly Trp Tyr Phe Asp Tyr

1 5 10

<210> 302
 <211> 117
 <212> PRT
 <213> Unknown

<220>
 <223> Light Chain amino acid sequence

<400> 302
 Gln Asp Ile Gln Met Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro
 1 5 10 15
 Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser
 20 25 30
 Ser Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu
 35 40 45
 Leu Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe
 50 55 60
 Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu
 65 70 75 80
 Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Ser
 85 90 95
 Pro Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr Val
 100 105 110
 Ala Ala Pro Ser Val
 115

<210> 303
 <211> 130
 <212> PRT
 <213> Unknown

<220>
 <223> Heavy Chain amino acid sequence

<400> 303
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Phe Tyr
 20 25 30
 Pro Met Pro Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Tyr Ile Ser Pro Ser Gly Gly Asp Thr Thr Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Phe Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Gly Gly Ser Tyr Ser Ser Trp Tyr Gly Tyr Trp Gly Gln
 100 105 110
 Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val
 115 120 125
 Phe Pro
 130

<210> 304

<211> 12
<212> PRT
<213> Unknown

<220>
<223> Light Chain amino acid sequence

<400> 304
Arg Ala Ser Gln Ser Val Ser Ser Ser Tyr Leu Ala
1 5 10

<210> 305
<211> 7
<212> PRT
<213> Unknown

<220>
<223> Light Chain amino acid sequence

<400> 305
Gly Ala Ser Ser Arg Ala Thr
1 5

<210> 306
<211> 9
<212> PRT
<213> Unknown

<220>
<223> Light Chain amino acid sequence

<400> 306
Gln Gln Tyr Gly Ser Ser Pro Trp Thr
1 5

<210> 307
<211> 5
<212> PRT
<213> Unknown

<220>
<223> Heavy Chain amino acid sequence

<400> 307
Phe Tyr Pro Met Pro
1 5

<210> 308
<211> 17
<212> PRT
<213> Unknown

<220>
<223> Heavy Chain amino acid sequence

<400> 308
Tyr Ile Ser Pro Ser Gly Gly Asp Thr Thr Tyr Ala Asp Ser Val Lys

1	5	10	15
Gly			

<210> 309
 <211> 11
 <212> PRT
 <213> Unknown

<220>
 <223> Heavy Chain amino acid sequence

<400> 309
 Gly Gly Ser Tyr Ser Ser Ser Trp Tyr Gly Tyr
 1 5 10

<210> 310
 <211> 116
 <212> PRT
 <213> Unknown

<220>
 <223> Light Chain amino acid sequence

<400> 310
 Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Val Ser Ala Ser Val
 1 5 10 15
 Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Arg Gly Ile Ser Arg
 20 25 30
 Trp Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
 35 40 45
 Ile Tyr Gly Ala Ser Thr Leu Gln Lys Gly Val Pro Ser Arg Phe Thr
 50 55 60
 Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Thr Ser Leu Gln
 65 70 75 80
 Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Gly Asn Ser Phe Pro
 85 90 95
 Phe Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys Arg Thr Val Ala
 100 105 110
 Ala Pro Ser Val
 115

<210> 311
 <211> 132
 <212> PRT
 <213> Unknown

<220>
 <223> Heavy Chain amino acid sequence

<400> 311
 Glu Val Gln Leu Leu Glu Ser Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Gly Tyr
 20 25 30
 Trp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45

Ser Val Ile Arg Pro Ser Gly Gly Lys Thr Gly Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Phe Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Val Arg Ala Pro Gly Tyr Tyr Tyr Gly Met Asp Val Trp
 100 105 110
 Gly Gln Gly Thr Thr Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro
 115 120 125
 Ser Val Phe Pro
 130

<210> 312

<211> 11

<212> PRT

<213> Unknown

<220>

<223> Light Chain amino acid sequence

<400> 312

Arg Ala Ser Arg Gly Ile Ser Arg Trp Leu Ala
 1 5 10

<210> 313

<211> 7

<212> PRT

<213> Unknown

<220>

<223> Light Chain amino acid sequence

<400> 313

Gly Ala Ser Thr Leu Gln Lys
 1 5

<210> 314

<211> 9

<212> PRT

<213> Unknown

<220>

<223> Light Chain amino acid sequence

<400> 314

Gln Gln Gly Asn Ser Phe Pro Phe Thr
 1 5

<210> 315

<211> 5

<212> PRT

<213> Unknown

<220>

<223> Heavy Chain amino acid sequence

<400> 315
 Gly Tyr Trp Met Ser
 1 5

<210> 316
 <211> 17
 <212> PRT
 <213> Unknown

<220>
 <223> Heavy Chain amino acid sequence

<400> 316
 Val Ile Arg Pro Ser Gly Gly Lys Thr Gly Tyr Ala Asp Ser Val Lys
 1 5 10 15
 Gly

<210> 317
 <211> 13
 <212> PRT
 <213> Unknown

<220>
 <223> Heavy Chain amino acid sequence

<400> 317
 Val Arg Ala Pro Gly Tyr Tyr Tyr Gly Met Asp Val
 1 5 10

<210> 318
 <211> 118
 <212> PRT
 <213> Unknown

<220>
 <223> Light Chain amino acid sequence

<400> 318
 Gln Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln
 1 5 10 15
 Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr
 20 25 30
 Asn Tyr Val Ser Trp Tyr Gln Arg His Pro Gly Lys Ala Pro Lys Leu
 35 40 45
 Ile Ile Tyr Asp Val Thr Asn Arg Pro Ser Gly Ala Ser Arg His Phe
 50 55 60
 Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu
 65 70 75 80
 Gln Ala Asp Asp Glu Ala Asp Tyr Tyr Cys Val Ser Phe Thr Asn Ser
 85 90 95
 Asn Thr Phe Val Phe Gly Ser Gly Thr Arg Val Thr Val Leu Gly Gln
 100 105 110
 Pro Lys Ala Asn Pro Thr
 115

<210> 319

<211> 138
<212> PRT
<213> Unknown

<220>
<223> Heavy Chain amino acid sequence

<400> 319
Glu Val Gln Leu Leu Glu Ser Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Leu Tyr
20 25 30
His Met Asp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45
Ser Val Ile Tyr Pro Ser Gly Gly Thr Pro Tyr Ala Asp Ser Val
50 55 60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80
Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Ala Arg Arg Val Gly Tyr Cys Ser Gly Gly Ser Cys Tyr Tyr Tyr Tyr
100 105 110
Tyr Tyr Met Asp Val Trp Gly Lys Gly Thr Thr Val Thr Val Ser Ser
115 120 125
Ala Ser Thr Lys Gly Pro Ser Val Phe Pro
130 135

<210> 320
<211> 14
<212> PRT
<213> Unknown

<220>
<223> Light Chain amino acid sequence

<400> 320
Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser
1 5 10

<210> 321
<211> 6
<212> PRT
<213> Unknown

<220>
<223> Light Chain amino acid sequence

<400> 321
Asp Val Thr Asn Arg Pro
1 5

<210> 322
<211> 10
<212> PRT
<213> Unknown

<220>

<223> Light Chain amino acid sequence

<400> 322

Val Ser Phe Thr Asn Ser Asn Thr Phe Val
1 5 10

<210> 323

<211> 5
<212> PRT
<213> Unknown

<220>

<223> Heavy Chain amino acid sequence

<400> 323

Leu Tyr His Met Asp
1 5

<210> 324

<211> 17
<212> PRT
<213> Unknown

<220>

<223> Heavy Chain amino acid sequence

<400> 324

Val Ile Tyr Pro Ser Gly Gly Gly Thr Pro Tyr Ala Asp Ser Val Lys
1 5 10 15
Gly

<210> 325

<211> 19
<212> PRT
<213> Unknown

<220>

<223> Heavy Chain amino acid sequence

<400> 325

Arg Val Gly Tyr Cys Ser Gly Gly Ser Cys Tyr Tyr Tyr Tyr Tyr
1 5 10 15
Met Asp Val

<210> 326

<211> 116
<212> PRT
<213> Unknown

<220>

<223> Light Chain amino acid sequence

<400> 326

Gln Asp Ile Gln Met Thr Gln Ser Pro Ala Thr Leu Ser Val Ser Pro
1 5 10 15

Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Arg Ser
 20 25 30
 Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
 35 40 45
 Ile Tyr Asp Ala Ser Thr Arg Ala Thr Gly Ile Pro Ala Arg Phe Ser
 50 55 60
 Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
 65 70 75 80
 Ser Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Asn Asn Trp Pro
 85 90 95
 Pro Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala
 100 105 110
 Ala Pro Ser Val
 115

<210> 327

<211> 123

<212> PRT

<213> Unknown

<220>

<223> Heavy Chain amino acid sequence

<400> 327

Glu Val Gln Leu Leu Glu Ser Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Trp Tyr
 20 25 30
 Arg Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Ser Ile Val Pro Ser Gly Gly Tyr Thr Arg Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Ser Asp Phe Gly Ser Trp Gly Gln Gly Thr Leu Val Thr Val Ser
 100 105 110
 Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro
 115 120

<210> 328

<211> 11

<212> PRT

<213> Unknown

<220>

<223> Light Chain amino acid sequence

<400> 328

Arg Ala Ser Gln Ser Val Arg Ser Tyr Leu Ala
 1 5 10

<210> 329

<211> 7

<212> PRT

<213> Unknown

<220>
<223> Light Chain amino acid sequence

<400> 329
Asp Ala Ser Thr Arg Ala Thr
1 5

<210> 330
<211> 9
<212> PRT
<213> Unknown

<220>
<223> Light Chain amino acid sequence

<400> 330
Gln Gln Tyr Asn Asn Trp Pro Pro Thr
1 5

<210> 331
<211> 5
<212> PRT
<213> Unknown

<220>
<223> Heavy Chain amino acid sequence

<400> 331
Trp Tyr Arg Met Asn
1 5

<210> 332
<211> 17
<212> PRT
<213> Unknown

<220>
<223> Heavy Chain amino acid sequence

<400> 332
Ser Ile Val Pro Ser Gly Gly Tyr Thr Arg Tyr Ala Asp Ser Val Lys
1 5 10 15
Gly

<210> 333
<211> 4
<212> PRT
<213> Unknown

<220>
<223> Heavy Chain amino acid sequence

<400> 333
Asp Phe Gly Ser
1

<210> 334
 <211> 123
 <212> PRT
 <213> Unknown

<220>
 <223> Light Chain amino acid sequence

<400> 334
 Phe Tyr Ser His Ser Ala Gln Ser Glu Leu Thr Gln Pro Pro Ser Ala
 1 5 10 15
 Ser Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Ser Ser
 20 25 30
 Ser Asn Ile Gly Ser Asn Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly
 35 40 45
 Thr Ala Pro Lys Leu Leu Ile Tyr Ser Asn Asn Tyr Arg Pro Ser Gly
 50 55 60
 Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu
 65 70 75 80
 Ala Ile Ser Gly Leu Gln Ser Asp Asp Glu Ala Glu Tyr Leu Cys Ala
 85 90 95
 Ala Trp Asp Asp Ser Leu Asn Gly Pro Val Phe Gly Gly Thr Lys
 100 105 110
 Val Thr Val Leu Gly Gln Pro Lys Ala Ala Pro
 115 120

<210> 335
 <211> 130
 <212> PRT
 <213> Unknown

<220>
 <223> Heavy Chain amino acid sequence

<400> 335
 Glu Val Gln Leu Leu Glu Ser Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
 20 25 30
 Val Met Ile Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Trp Ile Ser Ser Ser Gly Gly Tyr Thr Ser Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Lys Gly Pro Gly Thr Arg Gly Asp Tyr Trp Gly Gln Gly Thr Leu
 100 105 110
 Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu
 115 120 125
 Ala Pro
 130

<210> 336
 <211> 13

<212> PRT
<213> Unknown

<220>
<223> Light Chain amino acid sequence

<400> 336
Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Thr Val Asn
1 5 10

<210> 337
<211> 5
<212> PRT
<213> Unknown

<220>
<223> Heavy Chain amino acid sequence

<400> 337
Ser Tyr Val Met Ile
1 5

<210> 338
<211> 17
<212> PRT
<213> Unknown

<220>
<223> Heavy Chain amino acid sequence

<400> 338
Trp Ile Ser Ser Ser Gly Gly Tyr Thr Ser Tyr Ala Asp Ser Val Lys
1 5 10 15
Gly

<210> 339
<211> 8
<212> PRT
<213> Unknown

<220>
<223> Heavy Chain amino acid sequence

<400> 339
Gly Pro Gly Thr Arg Gly Asp Tyr
1 5

<210> 340
<211> 123
<212> PRT
<213> Unknown

<220>
<223> Light Chain amino acid sequence

<400> 340

Phe Tyr Ser His Ser Ala Gln Ser Val Leu Thr Gln Pro Pro Ser Ala
 1 5 10 15
 Ser Ala Thr Pro Gly Gln Arg Val Thr Phe Ser Cys Ser Gly Ser Ser
 20 25 30
 Ser Asn Ile Gly Ser Asn Ala Val Asn Trp Tyr His Gln Leu Pro Gly
 35 40 45
 Thr Ala Pro Lys Leu Leu Ile Tyr His Asn Asn Gln Arg Pro Ser Gly
 50 55 60
 Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu
 65 70 75 80
 Ala Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala
 85 90 95
 Ala Trp Asp Asp Ser Leu His Gly Tyr Val Phe Gly Pro Gly Thr Lys
 100 105 110
 Val Thr Val Leu Gly Gln Pro Lys Ala Asn Pro
 115 120

<210> 341
 <211> 131
 <212> PRT
 <213> Unknown

<220>
 <223> Heavy Chain amino acid sequence

<400> 341
 Glu Val Gln Leu Leu Glu Ser Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ile Tyr
 20 25 30
 Pro Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Gly Ile Ser Pro Ser Gly Gly Tyr Thr Gly Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Gly Gly Ile Ser Trp Phe Met Asp Tyr Trp Gly Gln Gly Thr
 100 105 110
 Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro
 115 120 125
 Leu Ala Pro
 130

<210> 342
 <211> 13
 <212> PRT
 <213> Unknown

<220>
 <223> Light Chain amino acid sequence

<400> 342
 Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Ala Val Asn
 1 5 10

<210> 343
<211> 7
<212> PRT
<213> Unknown

<220>
<223> Light Chain amino acid sequence

<400> 343
His Asn Asn Gln Arg Pro Ser
1 5

<210> 344
<211> 11
<212> PRT
<213> Unknown

<220>
<223> Light Chain amino acid sequence

<400> 344
Ala Ala Trp Asp Asp Ser Leu His Gly Tyr Val
1 5 10

<210> 345
<211> 5
<212> PRT
<213> Unknown

<220>
<223> Heavy Chain amino acid sequence

<400> 345
Ile Tyr Pro Met Asn
1 5

<210> 346
<211> 17
<212> PRT
<213> Unknown

<220>
<223> Heavy Chain amino acid sequence

<400> 346
Gly Ile Ser Pro Ser Gly Gly Tyr Thr Gly Tyr Ala Asp Ser Val Lys
1 5 10 15
Gly

<210> 347
<211> 9
<212> PRT
<213> Unknown

<220>
<223> Heavy Chain amino acid sequence

<400> 347
 Gly Gly Ile Ser Trp Phe Met Asp Tyr
 1 5

<210> 348
 <211> 369
 <212> DNA
 <213> Unknown

<220>
 <223> Light Chain nucleic acid sequence

<400> 348
 ttctattctc acagtgcaca gagcgtcttg actcagccac cctcagcgtc tgcgacccccc 60
 gggcagaggg tcaccttctc ttgttctgga agcagctcca acatcggaaag taatgctgta 120
 aactggtacc atcagctccc aggaacggcc cccaaactcc tcatactatca taataatcag 180
 cgaccctcag gggccctga ccgattctct ggctccaagt ctggcacctc agcctccctg 240
 gccatcagtg ggctccagtc tgaggatgag gctgattatt actgtgcagc atgggatgac 300
 agcctgcatg gttatgtctt cgacactggg accaaggtaa ccgtcctagg tcagcccaag 360
 gccaacccccc 369

<210> 349
 <211> 393
 <212> DNA
 <213> Unknown

<220>
 <223> Heavy Chain nucleic acid sequence

<400> 349
 gaagttcaat tgtagatgc tggggcggt ctgttcagc ctgggtgttc tttacgtctt 60
 tcttcgctg cttccggatt cactttctt atttacccta tgaattgggt tcgccaagct 120
 cctggtaaaag gtttggatgt ggttctggat atcttcctt ctgggtggcta tactggttat 180
 gctgactccg ttaaaggatcg cttcaactatc tctagagaca actctaagaa tactctctac 240
 ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagagggggc 300
 atcagctggt ttatggacta ctggggccag ggaaccctgg tcaccgtctc aagcgcctcc 360
 accaagggcc catcggtctt cccgctagca ccc 393

<210> 350
 <211> 378
 <212> DNA
 <213> Unknown

<220>
 <223> Light Chain nucleic acid sequence

<400> 350
 ttctattctc acagtgcaca gagcgtcttg actcagccctc gtcagtgac cgggtctccct 60
 ggacagtca gtcacccatctc ctgcactgga accagtagtg atgttgggtgc tagttataag 120
 tttgtctctt ggtaccaact aaagccaggc aaagccccca aactcatgct ttttaatgtc 180
 cgtgagcggc cctcaggggt ccctgatcgc ttttctgggt ccaagtccgg caacacggcc 240
 tccctgacca tctctggct ccaggctgag gatgaggctg actattactg ctgttccat 300
 gcacgcggcc agactttctc ttatgtctt ggaggtggga ccacggtcac cgtccttaggt 360
 cagcccaagg ccaacccccc 378

<210> 351

<211> 402
 <212> DNA
 <213> Unknown

<220>
 <223> Heavy Chain nucleic acid sequence

<400> 351

gaagttcaat	tgttagagtc	tggggcggt	cttgcgcgt	cttgcgcgt	tttacgtctt	60
tcttcggatt	cactttctct	cgttactcta	tgggggtgggt	tcgccaagct	120	
cctggtaaag	gtttggagtg	ggtttcttct	atccgtcctt	ctgggtggcta	180	
gctgactccg	ttaaaggctcg	cttcaactatac	tctagagaca	actcttaagaa	240	
ttgcagatga	acagcttaag	ggctgaggac	actgcagtct	actattgtgc	300	
gagtagatca	gtggctggtc	atttgactac	tggggccagg	gaaagatctg	360	
agcgcctcca	ccaagggccc	atcggtcttc	ccgctagcac	cc	402	

<210> 352
 <211> 126
 <212> PRT
 <213> Unknown

<220>
 <223> Light Chain amino acid sequence

<400> 352

Phe	Tyr	Ser	His	Ser	Ala	Gln	Ser	Val	Leu	Thr	Gln	Pro	Arg	Ser	Val
1									10					15	
Ser	Gly	Ser	Pro	Gly	Gln	Ser	Val	Thr	Ile	Ser	Cys	Thr	Gly	Thr	Ser
	20								25					30	
Ser	Asp	Val	Gly	Ala	Ser	Tyr	Lys	Phe	Val	Ser	Trp	Tyr	Gln	Leu	Lys
	35								40					45	
Pro	Gly	Lys	Ala	Pro	Lys	Leu	Met	Leu	Phe	Asn	Val	Arg	Glu	Arg	Pro
	50								55					60	
Ser	Gly	Val	Pro	Asp	Arg	Phe	Ser	Gly	Ser	Lys	Ser	Gly	Asn	Thr	Ala
	65								70					80	
Ser	Leu	Thr	Ile	Ser	Gly	Leu	Gln	Ala	Glu	Asp	Glu	Ala	Asp	Tyr	Tyr
			85						90					95	
Cys	Cys	Ser	Tyr	Ala	Arg	Gly	Gln	Thr	Phe	Ser	Tyr	Val	Phe	Gly	Gly
			100						105					110	
Gly	Thr	Thr	Val	Thr	Val	Leu	Gly	Gln	Pro	Lys	Ala	Asn	Pro		
									115					125	

<210> 353
 <211> 134
 <212> PRT
 <213> Unknown

<220>
 <223> Heavy Chain amino acid sequence

<400> 353

Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly	
1									10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Arg	Tyr
		20							25					30	
Ser	Met	Gly	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val
		35							40					45	

Ser Ser Ile Arg Pro Ser Gly Gly Tyr Thr Arg Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Lys Asp Leu Glu Tyr Ser Ser Gly Trp Ser Phe Asp Tyr Trp Gly
 100 105 110
 Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser
 115 120 125
 Val Phe Pro Leu Ala Pro
 130

<210> 354

<211> 12

<212> PRT

<213> Unknown

<220>

<223> Light Chain amino acid sequence

<400> 354

Cys Ser Tyr Ala Arg Gly Gln Thr Phe Ser Tyr Val
 1 5 10

<210> 355

<211> 5

<212> PRT

<213> Unknown

<220>

<223> Heavy Chain amino acid sequence

<400> 355

Arg Tyr Ser Met Gly
 1 5

<210> 356

<211> 17

<212> PRT

<213> Unknown

<220>

<223> Heavy Chain amino acid sequence

<400> 356

Ser Ile Arg Pro Ser Gly Gly Tyr Thr Arg Tyr Ala Asp Ser Val Lys
 1 5 10 15
 Gly

<210> 357

<211> 12

<212> PRT

<213> Unknown

<220>

<223> Heavy Chain amino acid sequence

<400> 357

Asp Leu Glu Tyr Ser Ser Gly Trp Ser Phe Asp Tyr
 1 5 10

<210> 358

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Exemplary motif

<221> VARIANT

<222> 4

<223> Xaa = Gln or Arg

<221> VARIANT

<222> 5

<223> Xaa = Asp, Gly, Arg, or Ser

<221> VARIANT

<222> 6

<223> Xaa = Val or Ile

<221> VARIANT

<222> 7

<223> Xaa = Arg, Ser or Asn

<221> VARIANT

<222> 8

<223> Xaa = Asn, Arg, His, Ser or Thr

<221> VARIANT

<222> (9)...(0)

<223> Xaa = Tyr, Asp, Glu, Trp, Asn or Ser

<221> VARIANT

<222> (10)...(0)

<223> Xaa = Leu, Val, or Tyr

<221> VARIANT

<222> (11)...(0)

<223> Xaa = Ala, Gly, Asn or Leu

<400> 358

Arg Ala Ser Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1 5 10

<210> 359

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Exemplary motif

<221> VARIANT
 <222> 5, 7, 8
 <223> Xaa = any amino acid, e.g., a hydrophilic amino acid

<221> VARIANT
 <222> 6
 <223> Xaa = Val or Ile

<221> VARIANT
 <222> 9
 <223> Xaa = Tyr, Asp, Glu, Trp, Asn or Ser

<221> VARIANT
 <222> 10
 <223> Xaa = is hydrophobic, or aliphatic

<400> 359
 Arg Ala Ser Gln Xaa Xaa Xaa Xaa Xaa Xaa
 1 5 10

<210> 360
 <211> 13
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Exemplary motif

<221> VARIANT
 <222> 8
 <223> Xaa = Gly, Glu, Asp or Ala

<221> VARIANT
 <222> 9
 <223> Xaa = Ser, Arg or Val

<221> VARIANT
 <222> 10
 <223> Xaa = Asn or Tyr

<221> VARIANT
 <222> 11
 <223> Xaa = Thr, Leu, Phe or Asp

<221> VARIANT
 <222> 13
 <223> Xaa = Tyr or Thr

<400> 360
 Ser Gly Ser Ser Ser Asn Ile Xaa Xaa Xaa Xaa Val Xaa
 1 5 10

<210> 361
 <211> 14
 <212> PRT

<213> Artificial Sequence

<220>

<223> Exemplary motif

<221> VARIANT

<222> 7

<223> Xaa = Ile or Val

<221> VARIANT

<222> 9

<223> Xaa = Asp, Gly or Tyr

<221> VARIANT

<222> 11

<223> Xaa = Asn, Glu or Asp

<400> 361

Thr Gly Thr Ser Ser Asp Xaa Gly Xaa Tyr Xaa Tyr Val Ser

1

5

10

<210> 362

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Exemplary motif

<221> VARIANT

<222> 1

<223> Xaa = Ser or Thr

<221> VARIANT

<222> 2, 3

<223> Xaa = Asp or Asn

<400> 362

Xaa Xaa Xaa Gln Arg Pro Ser

1

5

<210> 363

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Exemplary motif

<221> VARIANT

<222> 4

<223> Xaa = Ser or Thr

<221> VARIANT

<222> 5

<223> Xaa = Leu or Arg

```

<221> VARIANT
<222> 6
<223> Xaa = Gln or Ala

<400> 363
Gly Ala Ser Xaa Xaa Xaa
 1           5

<210> 364
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Exemplary motif

<221> VARIANT
<222> 1
<223> Xaa = Gln or Leu

<221> VARIANT
<222> 3
<223> Xaa = any amino acid or is hydrophilic, Ala, or
      Gly,

<221> VARIANT
<222> 4, 5
<223> Xaa = any amino acid or is hydrophilic

<221> VARIANT
<222> 6
<223> Xaa = aromatic, Thr, Arg or Lys

<221> VARIANT
<222> 8
<223> Xaa is hydrophobic

<400> 364
Xaa Gln Xaa Xaa Xaa Xaa Pro Xaa
 1           5

<210> 365
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Exemplary motif

<221> VARIANT
<222> 4, 5
<223> Xaa = any amino acid

<221> VARIANT
<222> 6
<223> Xaa = hydrophobic (e.g., aromatic)

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<221> VARIANT
<222> 8
<223> Xaa = Pro, Leu or Arg

<400> 365
Gln Gln Tyr Xaa Xaa Xaa Pro Xaa Thr
1 5

<210> 366
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Exemplary motif

<221> VARIANT
<222> 9
<223> Xaa = hydrophobic

<400> 366
Ala Trp Asp Asp Ser Leu Ser Gly Xaa Val
1 5 10

<210> 367
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Exemplary motif

<221> VARIANT
<222> 9
<223> Xaa = Val or Trp

<400> 367
Ala Trp Asp Asp Ser Leu Ser Gly Xaa Val
1 5 10

<210> 368
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Exemplary motif

<221> VARIANT
<222> 2
<223> Xaa = Ala or Thr

<221> VARIANT
<222> 5
<223> Xaa = Asp, Asn, Glu or Gln

<221> VARIANT

<222> 6
<223> Xaa = Ser or Thr

<221> VARIANT
<222> 8
<223> Xaa = Ser, Arg or Thr

<221> VARIANT
<222> 10
<223> Xaa = Val or trp

<400> 368
Ala Xaa Trp Asp Xaa Xaa Leu Xaa Gly Xaa Val
1 5 10

<210> 369
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Exemplary motif

<221> VARIANT
<222> 2
<223> Xaa = any amino acid , Trp, Asp, Lys, Thr, Arg,
His or Pro

<221> VARIANT
<222> 4
<223> Xaa = Asn, Trp, Asp, Glu, Pro, Thr, Arg, Ser, Val
or Phe

<400> 369
Tyr Xaa Met Xaa
1

<210> 370
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Exemplary motif

<221> VARIANT
<222> 1
<223> Xaa = arimatic

<221> VARIANT
<222> 3
<223> Xaa = any amino acid

<221> VARIANT
<222> 5
<223> Xaa = Asn, Trp, Asp, Glu, Pro, Thr, Ser, Val or
Phe

<400> 370
Xaa Tyr Xaa Met Xaa
1 5

<210> 371
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Exemplary motif

<221> VARIANT
<222> 3
<223> Xaa = any amino acid, Trp, His or Thr

<400> 371
Trp Tyr Xaa Met
1

<210> 372
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Exemplary motif

<221> VARIANT
<222> 3
<223> Xaa = any amino acid

<400> 372
Gln Tyr Xaa Met
1

<210> 373
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Exemplary motif

<221> VARIANT
<222> 2
<223> Xaa = any amino acid, hydrophobic or Val, Tyr,
Trp, Arg, Ser, or Gly

<221> VARIANT
<222> 3
<223> Xaa = Pro or Ser

<400> 373
Ile Xaa Xaa Ser Gly Gly
1 5

<210> 374
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Exemplary motif

<221> VARIANT
<222> 2, 7
<223> Xaa = any amino acid

<221> VARIANT
<222> 3
<223> Xaa = Pro or Ser

<400> 374
Ile Xaa Xaa Ser Gly Gly Xaa Thr
1 5

<210> 375
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Exemplary motif

<221> VARIANT
<222> 2
<223> Xaa = Ser, Val, Tyr, Trp, Arg or Gly

<221> VARIANT
<222> 3
<223> xaa = Pro or Ser

<221> VARIANT
<222> 7
<223> Xaa = Gly, Lys, Leu, Arg, His, Phe, Tyr, Thr, Gly,
Gln, Asp, Met, Ile or Asn

<400> 375
Ile Xaa Xaa Ser Gly Gly Xaa Thr
1 5

<210> 376
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Exemplary motif

<221> VARIANT
<222> 2
<223> Xaa = Ser, Val, Tyr, Trp, Arg or Gly

<221> VARIANT

<222> 3

<223> Xaa = Pro or Ser

<221> VARIANT

<222> 7, 9

<223> Xaa = any amino acid

<400> 376

Ile Xaa Xaa Ser Gly Gly Xaa Thr Xaa Tyr Ala Asp Ser Val Lys Gly
1 5 10 15

<210> 377

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Exemplary motif

<221> VARIANT

<222> 1, 2

<223> Xaa = Ser or Gly

<400> 377

Xaa Xaa Trp Tyr

1

<210> 378

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Exemplary motif

<221> VARIANT

<222> 3

<223> Xaa = Ser or Gly

<400> 378

Ser Ser Xaa Trp Tyr

1

5

<210> 379

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Exemplary motif

<221> VARIANT

<222> 1

<223> Xaa = Arg, His, Trp or Tyr

<400> 379
Xaa Tyr Tyr Tyr Gly Met
1 5

<210> 380
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Exemplary motif

<221> VARIANT
<222> 1
<223> Xaa = Tyr, Ser or Gly

<221> VARIANT
<222> 2
<223> Xaa = Arg, His, Trp or Tyr

<400> 380
Xaa Xaa Tyr Tyr Tyr Gly Met Asp
1 5

<210> 381
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Exemplary motif

<221> VARIANT
<222> 1
<223> Xaa = Ala, Gly, Gln, Ser or Val

<221> VARIANT
<222> 2
<223> Xaa = Ala, Thr or Ser

<221> VARIANT
<222> 3
<223> Xaa = aromatic

<221> VARIANT
<222> 4
<223> Xaa = any amino acid, or Glu, Asp, Arg, Thr or Ser

<221> VARIANT
<222> 5
<223> Xaa = any amino acid, or Asp, Asn, Gln, Lys, Arg
or Ser

<221> VARIANT
<222> (7)...(0)
<223> Xaa = any amino acid, or Ser, Leu, Thr or Asn

<221> VARIANT
 <222> (6)...(0)
 <223> Xaa = Ser, Thr, Gly or Ala

<221> VARIANT
 <222> (8)...(0)
 <223> Xaa = Ser, Thr, Arg or Gly

<221> VARIANT
 <222> (9)...(0)
 <223> Xaa = Gly, Pro, Asn or Phe

<221> VARIANT
 <222> (10)...(0)
 <223> Xaa = any amino acid

<400> 381
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Val
 1 5 10

<210> 382
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Exemplary motif

<221> VARIANT
 <222> 1
 <223> Xaa = Ser or Thr

<221> VARIANT
 <222> 2, 3, 4
 <223> Xaa = hydrophilic

<221> VARIANT
 <222> 5
 <223> Xaa = Leu, Arg or Asn

<221> VARIANT
 <222> 6
 <223> Xaa = pro, Arg or Gln

<400> 382
 Xaa Xaa Xaa Xaa Xaa Xaa Ser
 1 5

<210> 383
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Exemplary motif

<221> VARIANT

<222> 3
<223> Xaa = Ser or Gly

<221> VARIANT
<222> 5
<223> Xaa = Ser or Tyr

<400> 383
Ser Ser Xaa Trp Xaa
1 5

<210> 384
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Exemplary motif

<221> VARIANT
<222> 1
<223> Xaa = Ala, Asp, Glu or Gly

<221> VARIANT
<222> 2
<223> Xaa = Ala, Val, Asp, Asn or Glu

<221> VARIANT
<222> 3
<223> Xaa = Ala, Ser, Thr, Asn or Val

<221> VARIANT
<222> 4
<223> Xaa = Ser, Thr, Asn or Gln

<221> VARIANT
<222> 5
<223> Xaa = Leu, Arg or Asn

<221> VARIANT
<222> (6)...(0)
<223> Xaa = Ala, Gln, Pro or Arg

<221> VARIANT
<222> (7)...(0)
<223> Xaa = Thr, Phe, Ser, Lys or Pro

<400> 384
Xaa Xaa Xaa Xaa Xaa Xaa
1 5

<210> 385
<211> 7
<212> PRT
<213> Artificial Sequence

<220>

<223> Exemplary motif

<221> VARIANT

<222> 1

<223> Xaa = Ala, Asp, Glu, Asn or Gly

<221> VARIANT

<222> 2

<223> Xaa = Ala, Val, Asp, Asn or Glu

<221> VARIANT

<222> 3

<223> Xaa = Ala, Ser, Thr, Arg, Asn or Val

<221> VARIANT

<222> 4

<223> Xaa = Ser, Thr, Asn or Gln

<221> VARIANT

<222> 5

<223> Xaa = Leu, Arg or Asn

<221> VARIANT

<222> (6)...(0)

<223> Xaa = Ala, Gln, Pro or Arg

<221> VARIANT

<222> (70)...(0)

<223> Xaa = Thr, Phe, Ser, Lys or Pro

<400> 385

Xaa Xaa Xaa Xaa Xaa Xaa Xaa

1

5

<210> 386

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Exemplary motif

<221> VARIANT

<222> 1

<223> Xaa = Ala, Asp or Glu

<221> VARIANT

<222> 2

<223> Xaa = Ala or Val

<221> VARIANT

<222> 3

<223> Xaa = Ala, Ser or Thr

<221> VARIANT

<222> 4

<223> Xaa = Ser or Thr

<221> VARIANT
<222> 5
<223> Xaa = Leu or Arg

<221> VARIANT
<222> (6)...(0)
<223> Xaa = Ala or Gln

<221> VARIANT
<222> (7)...(0)
<223> Xaa = Thr, Phe, Ser or Lys

<400> 386
Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5

<210> 387
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Exemplary motif

<221> VARIANT
<222> 7
<223> Xaa = Ile or Val

<221> VARIANT
<222> 9
<223> Xaa = Ala, Asp, Gly or Tyr

<221> VARIANT
<222> 11
<223> Xaa = Asn, Lys, Glu or Asp

<221> VARIANT
<222> 12
<223> Xaa = Tyr or Phe

<400> 387
Thr Gly Thr Ser Ser Asp Xaa Gly Xaa Tyr Xaa Xaa Val Ser
1 5 10

<210> 388
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Exemplary motif

<221> VARIANT
<222> 1
<223> Xaa = Asn, Ser or Thr

<221> VARIANT
 <222> 2, 3, 4
 <223> Xaa = hydrophilic

<221> VARIANT
 <222> 5
 <223> Xaa = Leu, Arg or Asn

<221> VARIANT
 <222> 6
 <223> Xaa = Pro, Arg or Gln

<400> 388
 Xaa Xaa Xaa Xaa Xaa Xaa Ser
 1 5

<210> 389
 <211> 13
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Exemplary motif

<221> VARIANT
 <222> 8
 <223> Xaa = Gly, Glu, Asp or Ala

<221> VARIANT
 <222> 9
 <223> Xaa = Ser, Arg or Val

<221> VARIANT
 <222> 10
 <223> Xaa = Ala, Asn or Tyr

<221> VARIANT
 <222> 11
 <223> Xaa = Thr, Ieu, Phe or Asp

<221> VARIANT
 <222> 13
 <223> Xaa = Asn, Tyr or Thr

<400> 389
 Ser Gly Ser Ser Ser Asn Ile Xaa Xaa Xaa Xaa Val Xaa
 1 5 10

<210> 390
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Exemplary motif

<221> VARIANT

<222> 1
<223> Xaa = his, Ser or Thr

<221> VARIANT
<222> 2, 3
<223> Xaa = Asp or Asn

<221> VARIANT
<222> 4
<223> Xaa = Gln or Tyr

<400> 390
Xaa Xaa Xaa Xaa Arg Pro
1 5

<210> 391
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Exemplary motif

<221> VARIANT
<222> 2
<223> Xaa = Ala or Thr

<221> VARIANT
<222> 5
<223> Xaa = Asp, Asn, Glu or Gln

<221> VARIANT
<222> 6
<223> Xaa = Ser or Thr

<221> VARIANT
<222> 8
<223> Xaa = any anini acid, e.g. Ser, Arg, Thr, His or
Asn

<221> VARIANT
<222> 10
<223> Xaa = any amino acid, e.g., hydrophobic, e.g.,
Val, Tyr or Trp

<400> 391
Ala Xaa Trp Asp Xaa Xaa Leu Xaa Gly Xaa Val
1 5 10

<210> 392
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Exemplary motif

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<221> VARIANT
<222> 1
<223> Xaa = Asn, Gln, Arg or Lys

<221> VARIANT
<222> 2
<223> Xaa = hydrophilic, Ala or Gly

<221> VARIANT
<222> 3
<223> Xaa = Aliphatic

<221> VARIANT
<222> 4, 5
<223> Xaa = hydrophilic

<221> VARIANT
<222> 6
<223> Xaa = any amino acid, or aromatic or hydrophilic

<221> VARIANT
<222> (7)...(0)
<223> Xaa = hydrophobic

<400> 392
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1           5

<210> 393
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Exemplary motif

<221> VARIANT
<222> 1
<223> Xaa = Thr or Ser

<221> VARIANT
<222> 2
<223> Xaa = Asp or Glu

<221> VARIANT
<222> 3
<223> Xaa = Aliphatic

<221> VARIANT
<222> 5
<223> Xaa = hydrophilic or Gly

<221> VARIANT
<222> 7
<223> Xaa = hydrophilic, or Asn, Glu, Asp or Gln

<400> 393

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Xaa Xaa Xaa Gly Xaa Tyr Xaa Xaa Xaa
1 5 10

<210> 394
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Exemplary motif

<400> 394
Asp Phe Gly Ser
1